

Catalog 1991 - 1993

# Making A World Of Difference



# SOUTHERN

MISSOURI SOUTHERN STATE COLLEGE • JOPLIN

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# MISSOURI SOUTHERN STATE COLLEGE

## 1991-1993 CATALOG

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### **From the President,**

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body. Our students discover here one of the finest values in higher education anywhere, with quality academic programs small-size classes, excellent and accessible professors, and reasonable cost.



Our curriculum combines a liberal arts foundation with innovative professional directions to enable our graduates to adapt to constantly changing professions. Our new, enhanced international education emphasis will enable our students to become more concerned and capable citizens of the nation and the world.

A handwritten signature in cursive script that reads "Julio S. Leon". The signature is written in dark ink and is positioned above the printed name.

Julio S. Leon, President



## Dear Student,

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs and policies. If you need to know it, it's probably here. And it will be helpful throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

**1. *I haven't decided on a major yet. What do I do?***

Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Dr. Earle Doman, Hearnes Hall 112, 625-9595. (*Counseling Services, page 20*)

**2. *I'm concerned about the transition from high school to college. Is there someone to help?***

Counseling Services can help here too, as well as your College Orientation class. See Dr. Doman or Mrs. Lori LeBahn, Student Center 212, 625-9542. (*Orientation, page 18*)

**3. *Do you have an Honors Program?***

Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Lanny Ackiss or Mrs. Patricia Kluthe, Hearnes Hall 115, 625-9686. (*Honors Program, page 29*)

**4. *Can I get some financial help with college costs?***

A full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnes Hall 114, 625-9325. (*Financial Aid, page 18*)

**5. *What activities and organizations are available?***

A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Student Center 101, 625-9320. (*Student Activities, page 24. See also individual departments.*)





## Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- continually assess the effectiveness of its programs in order to ensure their quality and integrity.





# International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission is prompted by the realization that the successful citizens of the 1990's and the 21st century will have to possess better knowledge and awareness of the people, languages and cultures of other countries of the world. The dramatic changes that are taking place in the economic and political systems of the Soviet Union and Eastern European countries as well as the challenge by Asian and European countries to American economic leadership make self-evident the need for a college education with a strong global perspective.

Missouri Southern State College will phase in, over the next few years, different programs and activities designed to internationalize our college. Among these are included:

- Revising the curriculum to include a global perspective in every possible course.
- Expanding the teaching of foreign languages to include, among others, Russian, Chinese, Arabic, Italian, Japanese, etc.; in addition to German, French and Spanish.
- Increasing opportunities for Missouri Southern students to study abroad.
- Staging conferences and lectures on world affairs, as well as cultural and artistic programs with international performers.
- Creating new courses in international studies.
- Increasing the participation of international students.

As these programs are implemented, our present and future students should take advantage of them and prepare for the global environment of the future.



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# Core Curriculum

*"The task of education is to ensure both a celebration of the individual and an understanding of the interdependence of the individual within the larger community."*  
Bok

## The Baccalaureate Degree

Scholars cite the following as the most common aims of a baccalaureate degree:

- Undergraduates should acquire an ample store of knowledge, both in depth, by concentrating in a particular field, and in breadth, by devoting attention to several different disciplines.
- They should gain an ability to communicate with precision and style, a basic competence in quantitative skills and a capacity to think clearly and critically.
- Students should also become acquainted with the important methods of inquiry and thought by which we acquire knowledge and understanding of nature, society and ourselves.
- They should develop an awareness of other cultures with their differing values, traditions and institutions.
- By having the chance to explore many opportunities, they should acquire lasting intellectual and cultural interests, gain in self-knowledge and ultimately be able to make sound choices about their future lives and careers.
- Through working and living with a wide variety of fellow students, they should achieve greater social maturity and acquire a tolerance of human diversity.

These common human experiences which transcend culture and time should be the components of an undergraduate degree. The faculty of Missouri Southern has translated the above into the following goals for its Core Curriculum:

**Communicating:** The student can send and receive information in a variety of modes (written, graphic, oral, numeric and symbolic), within a variety of settings (one-to-one, in small and large groups), and for a variety of purposes (for example, to inform, to understand, to persuade and to analyze).

**Solving Problems/Critical Thinking:** The student can analyze a variety of problems (for example, scientific, social, personal), select or create solutions to problems and implement solutions.

**Clarifying Values:** The student can identify personal values and the personal values of other individuals, understand how personal values develop and analyze the implications of decisions made on the basis of personally held values.

**Functioning Within Social Institutions:** The student can identify those activities and institutions which constitute the social aspects of a culture (for example, governmental and economic systems, religion, marital and family institutions, employment and civic volunteer and recreational organizations), understand the impact that social institutions have on individuals in a culture; and the student's own and others' personal functioning within social institutions.

**Understanding Science and Technology:** The student can identify those activities and products which constitute the scientific/technological aspects of a culture (for example, transportation, housing, energy, processed food, clothing, health maintenance, entertainment and recreation, mood-alteration, national defense, communication and data processing), understand the impact of such activities and products on the individuals and the physical environment in a culture and analyze the uses of technological products in a culture and the student's personal use of such products.

**Understanding the Arts:** The student can identify those activities and products which constitute the artistic aspects of a culture (for example, graphic, art, music, drama, literature, dance, sculpture, film and architecture); understand the impact art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within a culture and the student's personal use of art.

The curriculum at Missouri Southern is designed in such a manner that these human experiences permeate each class taught at the institution. The graphic illustrates the cohesiveness of the student experience. (See next page.)

The **Core Curriculum** is the base of the graphic. Selected courses are designed to emphasize one or more of the goals described above. All baccalaureate degree candidates are required to gain minimum competency in these experiences. (See Core Curriculum, page 35.)

A **Major** or an extended study unit is required of all students. The curriculum is designed to allow limited experimentation



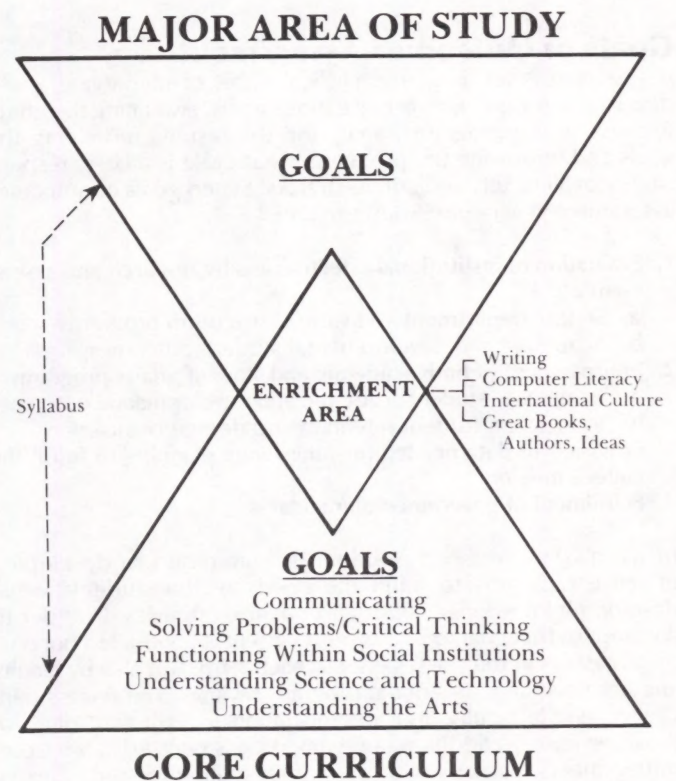
## Core Curriculum

in selecting that major. However, if a student wishes to graduate within four years, a major should be selected by the end of the third semester. (See specific majors listed within the narration of the four schools.)

The **Enrichment Area** insures a cohesive, integrated program of study from the freshman to the senior year. The **course syllabus** requires the attention of the Core Curriculum goals in each course taught on campus. The **Writing Program** is designed to insure acceptable composition permeates the total course of study. The **Computer Literacy** requirement rests within the discipline. Students must perform this competency within their major. The citizens of the 21st century cannot hope to prosper without a thorough knowledge of the cultures of the world.

**International Culture** permeates the curriculum. The thrust of our **American Culture** component is to insure the preservation of our value system, our democratic ideals and our way of life. The six required courses in the Core Curriculum are testimony to this strong belief. Western civilization is based upon a selected few **Great Books, Authors and Ideas**. The curriculum is designed to insure competency with this area.

The graphic illustrates a cohesive, integrated curriculum of undergraduate education.



*"To furnish the means of acquiring knowledge is . . . the greatest benefit that can be conferred upon mankind. It prolongs life itself and enlarges the sphere of existence."*

John Quincy Adams



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# Assessment of Outcomes

## Goals of Outcomes Assessment

Assessment is an on-going, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing the results, redefining the goals and improving the programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

1. **Evaluation of institutional effectiveness by research and assessment of:**
  - a. School department and Core Curriculum programs
  - b. Academic and developmental student outcomes
2. **Improvement of both academic and student affairs programs:**
  - a. To increase student academic and developmental outcomes
  - b. To increase student retention and degree completion
3. **Provision of data needed for long-range planning to fulfill the college mission**
4. **Fulfillment of governmental mandates**

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, on-going assessment is conducted not only by professors in the classes offered each term, but also by faculty and administration in annual program reviews. The Assessment Center assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

## Program For Assessment of Outcomes

Importance of assessment for college accountability is underscored by a **Board of Regents Policy which requires that students participate in assessment activities when requested.** Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for program review. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and employers are conducted periodically.

**Core Curriculum:** Basic to any degree obtained at the College is the Core Curriculum. A Faculty Core Curriculum Oversight Committee is charged with reviewing the Core Curriculum requirements, reviewing student outcomes in this area and making recommendations for program changes if needed.

Data for study are gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The ACT COMP (American College Testing College Outcome Measures Program) is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. The test is designed to assess skills developed in Missouri Southern's Core Curriculum. Students are called upon to analyze, synthesis, apply and evaluate information, rather than just to recall or recognize content.

**Departmental Majors:** The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs and make recommendations for curricular changes if needed. A variety of assessment methods are used by the various departments.

Departments which offer degrees that lead to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include accounting, dental hygiene, education, medical technology and nursing. Departments which use standardized major field tests that are offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, English, environmental health, history, management technology, mathematics, physics, political science and sociology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, computer information science, criminal justice administration, military science, music, psychology, Spanish and theatre departments have developed such plans.

**Student Development:** The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both in the classroom and on campus outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering students, withdrawing students and graduating students each year to assess current attitudes and opinions. Research of lasting college impact is conducted with periodic surveys of alumni, employers and members of the local community.

## Results of Assessment of Outcomes

It is impossible to list here the entire results of outcomes assessment at Missouri Southern; many volumes of data would be needed. Presented below are a few of the results obtained in recent years.

### Core Curriculum

In the Spring Semester, 1991, Missouri Southern administered the ACT COMP to nearly 600 senior students. Many of them had taken the same exam as freshmen, and thus were participants in a longitudinal study. They achieved a mean score of 188.1, which means that Southern's seniors scored better on average than 52% of the many thousands of similar students nation wide who also participated in this longitudinal study. Some of the institutions that also participated include Hardin-Simmons University, Illinois Wesleyan University, Northeast Missouri State University, Ohio University, University of Tennessee, and William Jewell College.



## Assessment of Outcomes

### Teacher Education

Graduates of Southern's teacher education program have been required to take the National Teachers Examination since 1969. Southern's graduates have consistently performed above the national averages.

#### National Teachers Examination

Professional Knowledge Test	Spring, 1989		Spring, 1990	
	Score	Percentile	Score	Percentile
MSSC	668	64	667	70
National	658	48	657	44

The table shows that Missouri Southern graduates performed significantly better than the national average in both years, just as they have done in past administration of the examination.

### Nursing

The graduates of the Nursing Program at MSSC have consistently excelled in the State Board Examination.

#### Department of Nursing

Year	1990	1989	1988	1987	1986
Number of Graduates	28	28	35	28	31
Number of Graduates Writing NCLEX	28	28	35	28	31
Number of Graduates Passing NCLEX (first time)	28	28	34	28	29
% Passing	100%	100%	97%	100%	94%
MO % Passing	94.5%	86.8%	85%	92%	92%
National % Passing	91.9%	86.5%	70%	91%	92%

### Radiologic Technology

In the period 1986–1990, 100% of graduates passed National Registry Examination on first attempt.

### Dental Hygiene

During the 1986–1990 period, passage rate on licensing examinations was 98%.

### Departmental Exams

Long-range studies are now being conducted in the departmental majors. The data collected thus far indicates that average scores achieved by Missouri Southern students are repeatedly at or above national averages. In addition, surveys conducted to assess the impact of the college on student development and on the community yield very positive results.

The results of outcomes assessment have been used in recent years to re-define the mission of the college and to restructure the core curriculum. Additionally, departments have redefined their major requirements and have added classes where needed and have deleted classes where effectiveness was not evident. Improvement of programs to increase student outcomes is first and foremost the driving force behind the assessment program.

*"No school is static.  
If it is not improving,  
it is declining."*

Larry Lezotte, Effective Schools Research



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## Non Scholae Sed Vitae Discimus

# “Education not for a living, but for life.”

The faculty of Missouri Southern believes all educated persons should be familiar with the knowledge base on which our society is built. We know that over the course of a lifetime most people in America will change occupations and careers several times. While technical capability and competency in the major area are essential, especially for entry level employment, advancement to higher levels always requires going beyond technical capabilities and current technology. We must be concerned with much more than preparation for the first job after graduation. That is why Missouri Southern is concerned with total education.

As an educated person, you should

- \* communicate well in both written and spoken forms;
- \* understand quantitative ideas;
- \* work well with both groups and individuals;
- \* analyze situations and ideas critically and objectively;
- \* know the historical, political and cultural heritage of your nation;
- \* understand something of the cultures of other societies;
- \* be open to new ideas and perspectives beyond what you have known in the past.

All these attributes are of equal importance to you, regardless of career choice or technical skill. They will serve you well throughout your lifetime. Acquiring those attributes is what we mean by the “total education of the person.”

Here are some of the ways we serve your total educational needs:

### Teaching Emphasis

Missouri Southern is an undergraduate college. Therefore, the faculty has one primary responsibility—to help you earn your bachelor's (or baccalaureate) degree. Here you will not be taught by some other student. From your first day, you will be taught by experienced faculty, many of whom have the highest degree available in their field.

### Core Curriculum

The faculty of Missouri Southern has designed a series of courses that all students earning a bachelor's degree must successfully complete. This Core Curriculum totals about 60 semester hours of credit, or almost half of the total of 128 semester hours required for the bachelor's degree. It provides a broad range of subjects for a solid foundation of liberal arts education to help accomplish that “total education.” It gives you the opportunity for an experience which is usually associated with exclusive private liberal arts colleges. (On page 35 you will find a complete description of the CORE.)

### Major Area of Study

Missouri Southern continues to offer the highest quality programs possible in the Schools of Arts and Sciences, Business Administration, Education and Psychology, and Technology. Many of our programs are truly outstanding, and as an institution which places

teaching first, students receive the full time and attention of the faculty.

### International Mission

The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum, and to add the international dimension to all of our courses wherever possible.

### Assessment of Outcomes

Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all major study areas. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up to date and not a static monument to past practice.

### Student Services

A great deal of college education goes on outside the classroom. An array of extracurricular activities are offered to meet almost every academic and social interest. In addition, a variety of services are available to meet other educational and personal needs.

### Non-traditional Students

Missouri Southern sees its sizable enrollment of non-traditional students (those over 25 years old) as a great advantage. Rarely do we find “real world” situations in which people interact exclusively with others of their own age. On our campus, students come to see each other as friends and allies, and learn to develop healthy relationships with a variety of people.

### Special Programs

Your opportunity for total education is enriched through a variety of special programs including study abroad, the Honors Program, study at Oxford University in England, internships and independent study opportunities and special cultural events such as the Warsaw Philharmonic in 1990 and the biennial Missouri Southern International Piano Competition.

More complete information on all of these areas is found in this catalog. And, of course, our faculty and staff are always willing to help you in any way to make the most of your college education. Don't hesitate to ask. We're here for you!



# Fee Policies

## Schedule of Fees

### Incidental Fees

Fall & Spring 91-92	Missouri Resident	Non-Resident
1 thru 12 hours	\$53.00 per hour	\$106.00 per hour
13 and above	\$39.00 per each additional hour	\$ 39.00 per each additional hour
Summer Session 91	\$48.00 per hour	\$ 96.00 per hour

### Other Fees

Application for Admission	\$ 10
Applied Music	\$ 50 per cr. hr.
Art Materials (Ceramic, sculpture, jewelry, selected)	\$ 10
Change of Class Schedule (add/drop fee)	\$ 5
Commencement	\$ 20 - 30
Laboratory Breakage and Materials cost	\$ 10
Late Registration	\$ 10
National Teachers Examination (required for BSE major)	\$ 20
Parking (all students, each semester)	\$ 3
Radiologic Technology Special Fees First term	\$ 100
All other terms, each	\$ 40
Senior Music Recital Fee	\$ 50
Student Activity (full-time)	\$ 20
Part-time	\$ 10
Textbook Rental and Service Charge (\$2 per hour refundable)	\$ 5 per cr. hr.
Transcript (first 2 without charge)	\$ 1
Residence Hall Cost (per semester)	\$1170
Refundable Security Deposit	\$ 75

THE COLLEGE RESERVES THE RIGHT TO CHANGE FEES WITHOUT NOTICE.

## Payment of Fees

### 1. Class Registration

At the time of enrollment, each student is required to pay a \$25.00 pre-enrollment fee before enrolling in classes for the semester. This fee, which reserves the student's class schedule, is credited to the student's account with the College. When enrolling, the student will receive a class schedule and a statement of estimated fees due and the deadline for payment.

### 2. Student Billing System

Missouri Southern operates a student billing system which bills the student after the first week of classes for all unpaid fees. Fees must be paid in full by the end of the third week of the semester. It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Although a statement of account is not mailed until after classes have begun, services are rendered as of the first day of class. Unless a student officially withdraws prior to the first day of class, fees should be paid subject to the stated refund policy. Students withdrawing on or after the first day of class will also be billed in accordance with this policy.

Failure to pay fees by the date indicated will result in the student being dropped from classes but will not relieve the financial obligation for those classes. Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term and January 1st for the Spring term in order to receive consideration for a payment deferment.

Appeals concerning special problems pertaining to fees should be directed in writing to the Senior Vice President in Hearn's Hall, Room 200.

### 3. Residence Hall fees may be paid in full by the first day of the semester or in three installments as indicated below.

Fall Semester	Spring Semester
August 15..... \$390	January 10 ..... \$390
September 15 ..... \$390	February 15..... \$390
October 15 ..... \$390	March 15 ..... \$390

Students will not be permitted to move into the Residence Halls without remitting payment as indicated above or providing evidence of confirmed financial aid.





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# Fee Policies

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## Fee Information

**Application for Admission** A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

**Applied Music** For one 30-minute lesson per week in applied music, the usual fee is \$50 per credit hour.

**Art Materials** This fee provides for materials such as clay, glazes, waxes, solder and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors or oils.

**Change of Class Schedule** Students are charged \$5 for each class change made after classes begin (refer to College Calendar).

**Commencement** Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

**Evening Session** Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the day session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

**Laboratory Breakage and Materials** There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects.

**Late Registration** A late registration fee is charged students who register after classwork begins. This fee is not refundable.

**Miscellaneous Fees** Occasionally certain additional fees may be assessed for classroom materials such as computer disks, computer manuals, training equipment or other items utilized in class instruction.

**Student Activity Fee** This charge is to support activities of the Student Senate, the Campus Activities Board and the *Crossroads* yearbook. This fee also is used to provide pictured identification cards required to be carried by all students. This card will allow admittance to most sports, theatre and music events of the College, and will allow the student to check out books from the College Library.

**Summer Session** Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

**Textbook Rental and Instructional Services** The College operates a textbook rental system through the College Bookstore. While

certain courses require the students to purchase books, most courses will only require the use of a rental textbook. At the time the rental books are checked out, the student will be required to pay a security fee based on the number of enrolled credit hours (\$25.00 for students enrolled in 1-6 hours; \$50.00 for students enrolled in over 6 hours). This fee will be credited to the student's account with the College. Students must return these textbooks at the end of each semester at which time they will receive a rental fee refund which will be credited to their account. Purchased books will not be billed, but must be paid for at the time of purchase.

**Transcripts** Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each additional transcript.

## Refund Policy

### (Except for Residence Hall Charges)

During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college the fee refund policy is as follows:

#### For Fall and Spring Semesters

Prior to the first day of class .....	100% refund
First through fifth weeks .....	60% refund
After the fifth week .....	0% refund

#### For Summer Semester

Prior to first day of class .....	100% refund
First through third weeks .....	60% refund
After the third week .....	0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition. The \$25.00 pre-enrollment fee is non-refundable if the student withdraws after classes begin.

*To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.*

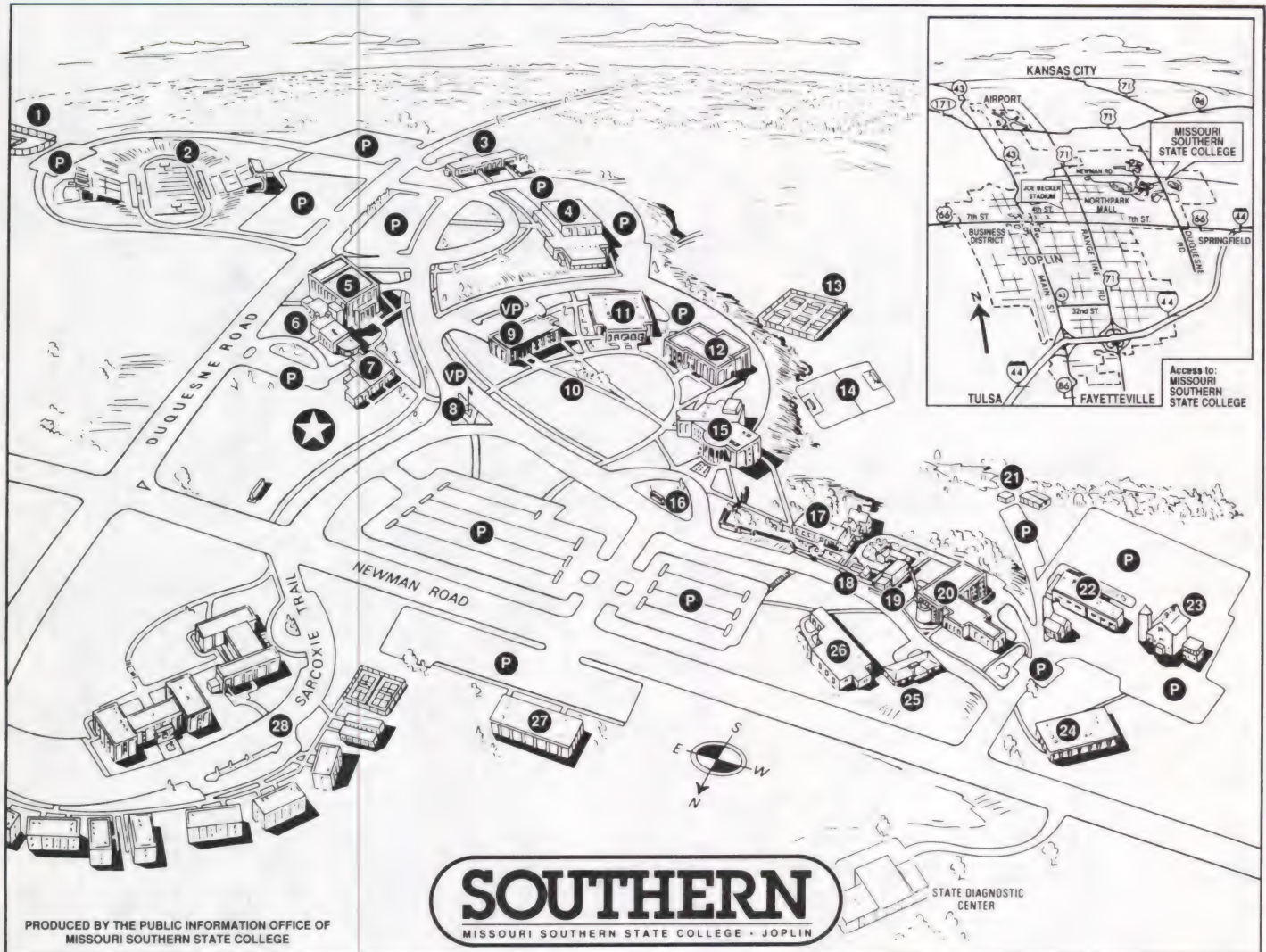
If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Senior Vice President. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Housing contract.



# Campus Directory



PRODUCED BY THE PUBLIC INFORMATION OFFICE OF  
MISSOURI SOUTHERN STATE COLLEGE

**SOUTHERN**  
MISSOURI SOUTHERN STATE COLLEGE • JOPLIN

## Building Directory

- 25 **Alumni House**  
Alumni/Development Office  
Missouri Southern Foundation
- 27 **Anderson Police Academy**  
Firing Range  
Law Enforcement, ROTC Departments  
Regional Crime Laboratory
- 7 **Art Building**  
Spiva Art Center
- 23 **Barn Theatre**, (destroyed by fire 11/90)
- 15 **Billingsly Student Center**  
Bookstore  
Food Service  
Meeting/Game Rooms  
Placement Office  
Public Information Office  
Student Activities, Student Services  
Ticket Office
- 21 **Biology Pond**  
Picnic Pavilion  
Solar Energy Laboratory
- 16 **Campus Directory**
- ★ **Webster Hall**  
(under construction)

- 9 **Hearnes Hall**  
Administrative Office  
Admissions, Financial Aid  
Continuing Education  
Counseling  
English Department  
Registrar
- 2 **Hughes Stadium**
- 26 **Kuhn Hall**
- 1 **Kungle Softball Field**
- 18 **KXMS Radio**
- 20 **Matthews Hall**  
Business Administration  
Computer Science
- 17 **Mission Hills Mansion Complex**  
Social Sciences Department
- 19 **MSTV Studio**  
Communications Department
- 6 **Music Building**  
Phinney Recital Hall
- 12 **Reynolds Hall**  
Biology, Mathematics,  
Physical Sciences Departments
- 14 **Soccer Field**
- 11 **Spiva Library**  
Learning Center

- 28 **Student Residence Halls**
- 10 **Stults Memorial Garden**
- 3 **Taylor Hall**  
Child Development Center  
Education Department  
Psychology Department
- 5 **Taylor Performing Arts Center**  
Theatre Department
- 24 **Ummel Technology Building**  
Manufacturing Technology  
Drafting/Design  
Dental Hygiene Departments
- 13 **Tennis Courts**
- 22 **Maintenance Office**  
Central Receiving  
Greenhouse  
Campus Security
- 8 **Veterans' Memorial**
- 4 **Young Gymnasium**  
Physical Education Department  
Varsity Athletics  
Sports Information Office  
Swimming Pool/Racquetball

P - Parking  
VP - Visitor Parking

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.



# Academic Calendar

June 1991						
S	M	T	W	T	F	S
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2	3	4	5	6	7	8
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July 1991						
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28	29	30	31			

August 1991						
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September 1991						
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October 1991						
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November 1991						
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## 1991 Summer Semester

May 31 ..... Day & Evening Registration  
 June 3 ..... Classes Begin  
 June 5 ..... Last Day for Class Changes and Late Registration  
 June 20 ..... Withdrawal After This Date No Refund of Fees  
 July 3 ..... Last Day to Drop with a "W"  
 July 4 ..... 4th of July Holiday  
 July 24 ..... Last Day of Classes  
 July 25 ..... Final Examinations

## 1991-92 Fall Semester

August 15 ..... Faculty Study Conference  
 August 15 ..... Day Registration and Evening Registration  
 August 16 ..... Day Registration  
 August 19 ..... Classes Begin  
 August 23 ..... Last Day for Class Changes & Late Registration  
 September 2 ..... Dismissal for Labor Day  
 September 20 ..... Withdrawal After This Date No Refund of Fees  
 October 18 ..... Last Day to Drop With a "W"  
 November 27-29 ..... Dismissal for Thanksgiving Holiday  
 December 2 ..... Classes Resume  
 December 11 ..... Last Day of Classes  
 December 12 ..... Reading Day - No Finals  
 December 13-19 ..... Final Examinations  
 December 19 ..... End of Semester

## 1991-92 Spring Semester

January 9 ..... Faculty Study Conference  
 January 9 ..... Day and Evening Registration  
 January 10 ..... Day Registration  
 January 13 ..... Classes Begin  
 January 17 ..... Last Day for Classes Changes & Late Registration  
 February 14 ..... Withdrawal After This Date No Refund of Fees  
 February 19 ..... Senior Assessment Day  
 March 20 ..... Last Day to Drop With a "W"  
 March 23-27 ..... Spring Break  
 May 6 ..... Last Day of Classes  
 May 7 ..... Reading Day - No Finals  
 May 8-14 ..... Final Examinations  
 May 14 ..... End of Second Semester  
 May 16 ..... Commencement

December 1991						
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January 1992						
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March 1992						
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April 1992						
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May 1992						
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24	25	26	27	28	29	30
31						



# Academic Calendar

## Academic Calendar

### 1992 Summer Semester

June 1 ..... Day & Evening Registration  
 June 2 ..... Classes Begin  
 June 4 ..... Last Day for Class Changes and Late Registration  
 June 18 ..... Withdrawal After This Date No Refund of Fees  
 July 1 ..... Last Day to Drop with a "W"  
 July 2 ..... 4th of July Holiday  
 July 23 ..... Last Day of Classes  
 July 27 ..... Final Examinations

### 1992-93 Fall Semester

August 20 ..... Faculty Study Conference  
 August 20 ..... Day Registration and Evening Registration  
 August 21 ..... Day Registration  
 August 24 ..... Classes Begin  
 August 28 ..... Last Day for Class Changes & Late Registration  
 September 7 ..... Dismissal for Labor Day  
 September 28 .. Withdrawal After This Date No Refund of Fees  
 October 23 ..... Last Day to Drop With a "W"  
 November 25-27 ..... Dismissal for Thanksgiving Holiday  
 November 30 ..... Classes Resume  
 December 11 ..... Last Day of Classes  
 December 14-18 ..... Final Examinations  
 December 18 ..... End of Semester

### 1992-93 Spring Semester

January 14 ..... Faculty Study Conference  
 January 14 ..... Day and Evening Registration  
 January 15 ..... Day Registration  
 January 18 ..... Classes Begin  
 January 22 ... Last Day for Classes Changes & Late Registration  
 February 19 .... Withdrawal After This Date No Refund of Fees  
 February 24 ..... Senior Assessment Day  
 March 15-19 ..... Spring Break  
 March 22 ..... Last Day to Drop With a "W"  
 May 12 ..... Last Day of Classes  
 May 13 ..... Reading Day - No Finals  
 May 14-20 ..... Final Examinations  
 May 20 ..... End of Second Semester  
 May 22 ..... Commencement

June 1992

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July 1992

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August 1992

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September 1992

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October 1992

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November 1992

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December 1992

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January 1993

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February 1993

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March 1993

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April 1993

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May 1993

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30	31					



# Correspondence/Facilities

Missouri Southern State College Joplin, MO 64801-1595  
(417) 625-9300

24 hr. answering service 782-MSSC

For admissions and financial aid information in Missouri  
toll free 1-800-492-4811

Admission of students . . . . .	Director of Admissions	625-9378
Alumni affairs . . . . .	Director of Alumni Affairs	625-9396
Business affairs . . . . .	Assistant Vice President for Business Affairs	625-9728
Catalog and bulletins . . . . .	Director of Admissions	625-9378
Credit evaluation/transcripts . . . . .	Registrar	625-9389
Evening session . . . . .	Vice President for Academic Affairs	625-9394
Faculty appointments . . . . .	Vice President for Academic Affairs	625-9394
Financial aid . . . . .	Office of Financial Aid	625-9325
Gifts and annuities . . . . .	President	625-9500
Housing . . . . .	Director of Housing	625-9522
Loans . . . . .	Office of Financial Aid	625-9325
News/publications . . . . .	Director of Public Information	625-9365
Orientation . . . . .	Director of Orientation	625-9542
Placement services . . . . .	Director of Placement Services	625-9343
Student employment . . . . .	Office of Financial Aid	625-9325
Student organizations . . . . .	Coordinator of Student Activities	625-9320
Summer session . . . . .	Vice President for Academic Affairs	625-9394
Testing . . . . .	Director of Counseling	625-9324
Veterans affairs . . . . .	Veterans Counselor	625-9529

Athletics (men) . . . . .	625-9317
Athletics (women) . . . . .	625-9316
Bookstore . . . . .	625-9380
Cafeteria . . . . .	625-9546
Child Development Center . . . . .	625-9360
Continuing Education . . . . .	625-9384
Counseling . . . . .	625-9324
Crime Laboratory . . . . .	625-9382
Dental Hygiene Clinic . . . . .	625-9379
Grammar Hotline . . . . .	624-0171
Honors Program . . . . .	625-9686
KXMS-FM . . . . .	625-9356
Learning Center . . . . .	625-9373
Library . . . . .	625-9386
Maintenance . . . . .	625-9387
Missouri Southern Foundation . . . . .	625-9396
MSTV . . . . .	625-9375
Purchasing . . . . .	625-9388
Safety & Security . . . . .	625-9391
School of . . . . .	
Arts & Sciences . . . . .	625-9385
Business Administration . . . . .	625-9319
Education & Psychology . . . . .	625-9314
Technology . . . . .	625-9328
Sports Information . . . . .	625-9359
Student Activities . . . . .	625-9320
Swimming & Racquetball . . . . .	625-9390
Ticket Office . . . . .	625-9366
Vice President, Student Services . . . . .	625-9392

**Additional areas** (for academic department numbers, see department information in each school)

## Facilities

Missouri Southern moved to the present campus site in 1967. With few exceptions, all of our present facilities have been constructed since that date, and thus we have a modern and up-to-date physical plant.

**Hearnes Hall** houses central administration and the English department.

**Spiva Library** also houses the Learning Center.

The School of Education and Psychology is located in **Taylor Hall**.

The **Mansion**, landmark from the 1920's, provides facilities to the departments of social sciences and communications.

The **Anderson Police Academy** is the location for the School of Technology, military science, the Crime Lab and the department of criminal justice administration.

**Taylor Auditorium** and **Spiva Art Center** are used by fine arts students and faculty.

**Kuhn Hall** houses the nursing department.

**Reynolds Hall** provides classroom, office and laboratory space for mathematics and sciences.

The **Ummel Technology Building** is used by CADD, CAMT and the dental hygiene programs.

**Matthews Hall** is the facility for the School of Business Administration and the department of computer science.

**Billingsly Student Center** provides facilities for administrative offices as well as student activities.

The **Television Lab** and connected buildings provide facilities for broadcasting and communications activities.

**Young Gymnasium** and **Hughes Stadium** are modern teaching and athletic facilities.

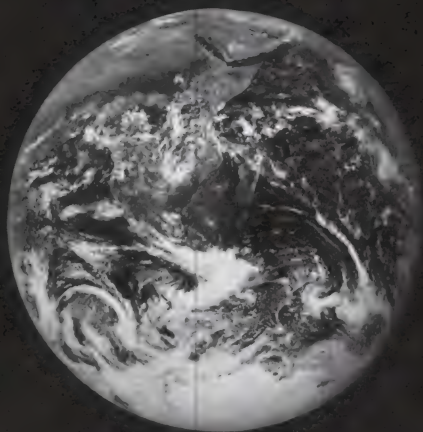
The **Alumni House** provides offices for the Southern Foundation and alumni operations.

Residence facilities include **South Hall**, **Webster Hall**, **Annex 1** and **2** and Buildings **A, B, C, D, E, F, G** and **H**.

Additional facilities include maintenance and shop buildings.



# STUDENT SERVICES





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# Student Services

## Vice President for Student Services

Glenn D. Dolence  
Billingsly Student Center 211, 625-9531

**Staff** Allman, Beard, Binns, Carlisle, Carnahan, Chism, Deem, Disharoon, Dobson, Doman, Fowler, Frazier, Frerer, Gilbert, Gipson, Hartley, Humphrey, Karst, LeBahn, Pennington, Vermillion, Wemer

## Purpose and Objectives

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the goal of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

1. providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
2. providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;
3. providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
4. providing an opportunity for those individuals who are

capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans and employment;

5. helping each student develop a sense of individual responsibility and self-discipline;
6. interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public;
7. providing student health services that meet the emergency and temporary medical needs of all students;
8. providing an opportunity for students to gain information about the world of work and job opportunities; and
9. providing assistance and direction in matching student qualifications with job requirements.

## College Orientation

Billingsly Student Center 211, 625-9542

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college personnel, services, policies and procedures. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and the spring semesters and includes the assignment of an academic adviser for each student. Members of the Student Services staff serve as academic advisers for students who have not declared an academic major. Special orientation courses are available for transfer and non-traditional students. The Director of College Orientation coordinates a nine-day summer orientation program as well as the fall and spring programs. The Orientation Office is located in the Central Student Services Office, 211 Billingsly Student Center.

## Financial Aid

Hearnes Hall 114, 625-9325

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds--from private, institutional, state and federal sources--are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.





## Financial Aid

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 28 or above on the Placement Test or with a 3.5 GPA in high school course work	Full tuition and fees for ACT scores that fall within the 99th percentile	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the College's service area	1991-92 \$1000.00	Upon recommendations of high school counselor, scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 25 composite score or higher on the ACT and have a 3.0 high school GPA	1991-92 \$665.00	Have ACT Placement Test scores sent to Counseling Office
Deans' Scholarships*	High school graduates who rank in the upper 20% of their graduating class and have a composite ACT of 21 or above. The Deans' Scholarship can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	1991-92 \$500.00	Contact your high school counselor
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college.	1991-92 \$665.00	Complete a Junior College Transfer Application
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$1500 as determined by individual donors	Applications available in Financial Aid Office; application deadline April 1
Performing Aid Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students enrolled in military science	One-year, two-year and three-year scholarships for tuition, lab fees, on-campus educational fees and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year	Applications available from the military science department

\*Students receiving President's, Regents', Deans' and Junior College Transfer scholarships must enroll in and complete at least 12 hours each semester with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.



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## Financial Aid

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Grants	Who Is Eligible	How Much	How to Apply
Pell Grant	Federal Aid program based on financial need. All students should apply	Grants range from \$200 to \$2300 depending on where the student lives and educational costs	Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15.
Missouri Student Grant	State funded program for Missouri residents; based on financial need	Maximum grant not to exceed one-half the cost of tuition and fees	Complete an approved need analysis. Deadline April 30
Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional financial need	Grants range from \$100 to \$4000 per academic year	Complete an approved need analysis. MSSC prefers CSX's AFSSA Application, priority date February 15
COPHE Teachers Scholarship	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office
Robert C. Byrd's Honors Scholarship	Graduating H.S. seniors	\$1500	Byrd Scholarship Application
Missouri Higher Education Academic Scholarship	Graduating H.S. seniors	\$2000	Missouri Higher Education Academic Scholarship Application
Employment Programs	Who is Eligible	How Much	How to Apply
Work Study Program	Federally funded program providing on-campus employment for students with financial need	Minimum wage, weekly hours based on need	Complete an approved need analysis. MSSC prefers CSX's AFSSA Application, priority date February 15
Student Help Program	On-campus employment for students who are qualified to fill job openings	Minimum wage, weekly hours depend on operational need	Apply to Student Employment Office or to individual departments on campus
Job Location & Development	All students unless conflicting other aid	Minimum wage and up	Fill out MSSC Employment Application, make an appointment



## Financial Aid

Loans	Who Is Eligible	How Much	How to Apply
Perkins Loan	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Need to \$4500 first 2 years; 4 year total to \$9000.	Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15
Stafford Loans	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Need to \$2625 per year for freshman and sophomore; \$4000 per year for junior and senior. Total \$17,250.	Application and special instructions available in Financial Aid Office. Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15.
PLUS/SLS	Regular student must apply for Federal Aid programs	\$4000 per year	Applications and special instructions available in Financial Aid Office. Complete an approved need analysis, MSSC prefers CSX's AFSSA application, priority date February 15.
Other Assistance	Who Is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded	Applications available in the Financial Aid Office
Veterans' Administration Benefits	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors	Amount varies depending on chapter and enrollment status	Contact: Veterans' Administration Officer, Veterans' representative on campus or Veterans' Administration Regional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood	Awards range from partial tuition to full tuition and fees	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
Vocational Rehabilitation	Students with any disability	Awards range from \$25 to full tuition, fees, room and board	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801

All financial assistance is subject to change without notice to meet federal regulations and availability of funds.



# Financial Aid

## How to Apply for Financial Aid

1. All applicants must complete an approved need analysis application. MSSC prefers CSX's AFSSA form. Application deadline is April 30; however, awards will be made until all funds are expended. This application will generate a Pell Grant, Missouri Grant and a financial aid report.
2. Applicants should bring or mail all copies of the Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
3. Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.
4. Applicants must indicate on their need analysis the type of assistance for which they wish to apply. In addition, applicants for Stafford, PLUS and SLS loans must complete a separate loan application.
5. Applicants for Patron Scholarships must complete a scholarship application and return it to the Financial Aid Office prior to April 1.
6. Transfer students must request a financial aid transcript for each college previously attended.
7. Applicant for performing awards should contact the director of the program in which they wish to participate.
8. Applicants for special programs should contact the Financial Aid Office for instructions.

## Policies and Regulations

**Academic Standards:** The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 40) Standards of Progress Toward Graduation. After the second year, federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

### Maximum Semesters of Aid Eligibility

Degree	Full-Time	3/4-Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing an baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per year
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.





# Financial Aid



## Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school,
2. a significant change in income,
3. added or dropped classes during the semester,
4. a name change,
5. change of address or change of parents' address,
6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and lenders which are capable of processing data by teletransmission. The electronic system requires student signatures on student aid reports, documentation, award letters, loan applications and promissory notes before funds can be processed.

Financial aid funds will be credited to your account and if there is a balance, a check will be prepared and mailed to you; therefore, a correct address is very important. Checks are written every two weeks except for CWSP and Stafford loans. CWSP, Stafford, SLS and miscellaneous checks must be picked up in person by presenting proper identification.

Veterans must sign up for veterans' benefits at the beginning of each semester.

## Counseling Services

Hearnes Hall 114H, 625-9324

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearnes Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories and referral services.

## Testing Services

Missouri Southern is a national testing center for the following examinations:

1. ACT (Placement test for college entrance)
2. NTE (National Teachers Exam)
3. EESN (Entrance Examination for Schools of Nursing)
4. DHAT (Dental Hygiene Aptitude Test)
5. MAT (Miller's Analogy Test for graduate school)
6. CLEP (College Level Examinations Program)

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on

All aid will terminate immediately under the following situations:

1. withdrawal from all classes,
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee or
3. default on any federally funded student loan or overpayment of any Title IV funds.

## Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The Director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.



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## Student Services

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the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have TOEFL score of 535, will take, by appointment, the Michigan Test of English Language Proficiency.

The CLEP (College Level Examination Program) is administered on Thursday and Friday weekly. The student must contact the Counseling Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for general education and other freshman/sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

### Counselors for Special Students

Certified counselors and advisers are available for international students, veterans and handicapped students. The international student adviser has information and forms required by the U.S. Office of Immigration and Naturalization concerning immigration matters. Students should contact the international student adviser regarding visa renewal, transferring to other schools, etc.

The veterans' counselor is the certifying official for the College and the contact person for veterans' educational benefits. Veterans' enrollment must be certified each semester and the veterans' counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist physically handicapped students with early enrollment, assistance in overcoming barrier problems, Readers for the Blind Program and other matters of concern to these students.

### Academic/Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest, ability and personality inventories are used by the counseling staff to assist in career decision making. A library of career materials is also available to assist students in making academic/career decisions.

The DISCOVER program, a computer based career guidance system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations and selecting appropriate strategies to reach career plans.

### Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return to Learn" course is offered each semester as the orientation course

for returning adult students. SAGE, an organization for adult students, assists the expanding adult segment of the student population. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearn Hall.

## Student Activities

Billingsly Student Center 101, 625-9320

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

### Campus Activities Board (CAB)

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

### Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.





## Student Services

### Career Planning and Placement

Billingsly Student Center 207, 625-9343

The Career Planning and Placement Office, located in Room 207 of Billingsly Student Center, provides many services to Missouri Southern students and graduates.

Prospective graduates and alumni may enlist the staff's help in finding full-time employment. Representatives of business, industry, government and educational institutions are invited to the campus to interview students for possible job openings. Students are encouraged to visit the Career Planning and Placement Office regularly and to take advantage of on-campus interviews, vacancy listings, career fairs, workshops/seminars and assistance in developing interviewing skills and preparing resumes.

The Career Planning and Placement Office also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career.

### Residence Halls

Billingsly Student Center 212, 625-9522

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Director of Student Life."

The College provides residence hall accommodations and meals for over 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional head residents and 19 paraprofessional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application-Contract for Room and Board Accommodations from the Missouri Southern Housing



Office. The completed Application-Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

### Student Health Services

Kuhn Hall 303, 625-9323

The faculty and staff of Missouri Southern are interested in students' physical and emotional well-being as well as their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. All currently enrolled students are eligible for treatment at the center. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions and ambulance service.



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## Student Services

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### Communicable Diseases

When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students must be protected against the diseases of measles, mumps and rubella. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

### Intercollegiate Athletics

Young Gymnasium 122 (men), 625-9317/215 (women), 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

### Student Conduct

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, Billingsly Student Center 211. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Handbook which is available from the Director of Residential Life.

**Substance Abuse Policy:** Students are prohibited from using alcoholic beverages and illegal drugs at Missouri Southern. Irresponsible usage of alcohol or other usage off campus resulting in disorderly conduct on campus is also not acceptable. Any student of Missouri Southern found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both.

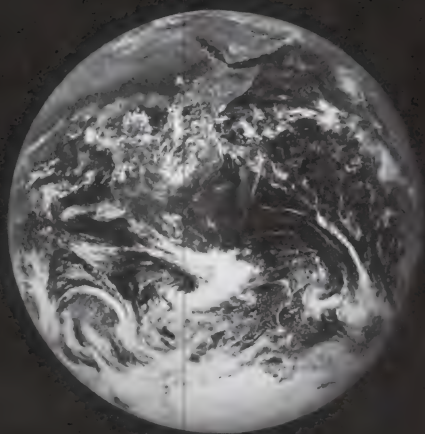
### Student Identification Cards

The student identification card is produced by the College and issued to all full-time students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. is free; replacement cost for lost cards is \$5.00.





# ACADEMIC AFFAIRS





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# Academic Affairs

## Vice President for Academic Affairs

Robert C. Brown  
Hearnes Hall 200, 625-9394

**Staff** Ray A. Malzahn, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business; Edward P. Merryman, Dean, School of Education and Psychology; James K. Maupin, Dean, School of Technology; Delores A. Honey, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles Kemp, Head Librarian; Eugene C. Mouser, Registrar; Betty R. Israel, Director of the Assessment Center; and Myrna Dolence, Coordinator of the Learning Center.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Continuing Education Program, the Writing Program, the Assessment Program and all academic units are under its direction.

## Spiva Library

Spiva Library 205, 625-9703  
Head Librarian: Charles Kemp  
Librarians: Robert Black, Mary Lou Dove, Susan Huston, Charles Nodler, Gaye Pate and Edward Wuch

The Library consists of two units:

1. George A. Spiva Library
2. The Audio-Visual Center

## The Library

The Spiva Library, the major information resource on campus, has a collection that includes over 192,000 volumes; 1,300 periodical titles; a selective state and federal government documents depository; a law collection and over 600,000 items on microfiche or microfilm. Additional collections in the archival area include the papers of Congressman Gene Taylor, maps of the tri-state mining area and the papers of Arrell Gibson, a noted western historian. The collections are housed in a building that was constructed in 1967. There have been two renovations of the building since then, with the latest being in 1987. The staff is composed of seven librarians, 12 support staff members and part-time student staff members.

The teaching function of the library is considered of great importance as befits a college which prizes excellence and the intellectual development of its students. Tours of the library are given and every effort is made to insure that students learn how to conduct research in the library effectively. Well-trained librarians are available to teach patrons how to use information resources and to assist patrons with their research and information needs.

Modern technology is used heavily in Spiva Library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database of over 21 million records online in over 11,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles.



All functions of the library are completely automated. The collection of materials can be accessed from terminal locations in the library, in faculty offices and from home computers equipped with modems through the LION on-line public access catalog. The LION, which is an acronym for Library Information On-Line, has replaced the wooden card catalogs full of 3 x 5 cards. The library also circulates, catalogs and orders books using the automation system. The system used is a state-of-the-art integrated library automation package developed and supported by NOTIS, INC.

The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method of researching periodical literature for many students. *ABI-INFORM*, *ERIC*, *Newspaper Abstracts*, *MLA Bibliography*, *Medline* and *Cumulative Index to Nursing and Allied Health Literature* are some of the major periodical indexes and abstracts in this format. Other major indexes/abstracts available in print format are *Biological Abstracts*, *Psychological Abstracts*, *Reader's Guide to Periodical*



## Academic Affairs

*Literature, Business Periodicals Index, Sociological Abstracts and Chemical Abstracts.* In addition, the reference staff can do on-line searches for library patrons through DIALOG or BRS which have several hundred databases available for searching. With all of these information sources available, students at Missouri Southern never lack information for research papers.

The new methods of information retrieval make library research easier than it has ever been. When the new technology is combined with a library staff whose major goal is excellent library service, the net result for Missouri Southern students is a pleasant and productive experience in the Spiva Library.

### The Audio-Visual Center

Located on the third floor, the AVC is the audio-visual materials component of the Spiva Library. The materials include curriculum textbooks, children and juvenile books, video and audio tape materials, films, slides, kits and miscellaneous types of instructional materials. The materials in the AVC are cataloged and made available through the LION. The staff provides limited production services such as making overhead transparencies, laminating materials and copying audio-tapes. The Center includes the appropriate playback equipment for the materials. Both IBM and Apple microcomputers are furnished for student use. Each school and department has equipment, so only a limited number of equipment items such as projectors, video cassette recorders and tape recorders are available for scheduling through the Audio-Visual Center.

### The Honors Program

Hearnes Hall 115, 625-9686  
Delores Honey, Chairperson, Honors Committee  
David L. Ackiss, Director  
Patricia P. Kluthe, Assistant Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Features of the program are as follows:

1. All full-time students admitted to the Honors Program will receive a four-year renewable scholarship that covers tuition, book rental fees and student activity fees for fall, spring and summer semesters. Additional scholarship funds to cover room and board are available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
2. Honors sections of selected Core Curriculum courses are available to Honors Students.
3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individually enhanced classes tailored to student potential, individualized advising, colloquia, guest speakers, opportunities for sponsored research, exploration of professional and graduate study opportunities and senior research projects.
4. Recognition is given to Honors Program members who successfully complete the program at Honors Convocation, at graduation and by a notation on their permanent records.

### Who is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the Enhanced ACT of 28 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work, are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview are required of applicants.

Students who have already completed no more than 30 hours of course work with a grade point average of 3.5 or above at Southern or any other accredited college or university, also are invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595. Application deadline: April 1.

### Summer Study at Oxford

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade average. Qualified students select courses of-





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## Academic Affairs

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ferred in three week sessions on various subjects. Missouri Southern grants partial scholarships to selected students each year. Honors Program students are given priority consideration in the selection process. Faculty members are also chosen to take part in the program. There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.

### The Division of Continuing Education

Hearnes Hall 103, 625-9384  
R. Jerry Williams, Director

The Division of Continuing Education embraces the life-long learning concept by providing credit and non-credit courses that supplement the college curriculum. Over 34,000 students have enjoyed learning opportunities in wide range of academic and non-academic subjects.

The Division is also responsible for distance education programs offering courses off the main campus. Delivery systems include customized training provided at business and industrial sites, video tape correspondence courses and courses offered through the college television broadcast station and microwave system.

Numerous seminars and workshops are also offered through the Division of Continuing Education for professional continuing education credit and personal self enrichment. Subjects vary from art workshops to ocular pathology.

Information concerning various programs may be obtained by contacting the Division of Continuing Education located in Hearnes Hall, Room 103.

### The Learning Center

Spiva Library 327, 625-9373  
Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

1. computer lab for all students;
2. computer assisted programs in reading and writing;
3. supplemental instruction in designated classes;
4. peer and professional tutoring;
5. counseling.

Required classes in composition and reading, designed to meet the needs of underprepared students, are offered through the Center. Additional classes in reading and study skills are available.

### The Assessment Center

Hearnes Hall 115, 625-9696  
Betty R. Israel, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major will be assessed each year. The relative strength of programs can be judged and actions formulated to ensure that all programs provide the best possible opportunities to students. Student opinionnaires will be given every two years.

### The Writing Program

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advises the Vice President for Academic Affairs on the development and supervision of the program.





# Academic Regulations

Missouri Southern faculty want their students to succeed, so students need to prepare themselves academically for college classes. The following high school studies are recommended for college bound students. Experience has shown that students who have completed these courses are most likely to succeed in college:

1. Language Arts: 4 years of English which must include 2 years of composition plus 1 year selected from speech, journalism, literature or foreign language. Total -- 4 Units
2. Mathematics: 1 year of algebra and 2 years selected from advanced algebra, geometry, trigonometry, calculus or computer science. Total -- 3 Units
3. Sciences: such as biology, physics, chemistry, earth sciences and life sciences. (General science does not count.) Total -- 3 Units
4. Social Sciences: such as American government, American history, world history, psychology, sociology, economics or anthropology. Total -- 2 Units
5. Three additional units selected from: foreign language, mathematics, physical or biological science or social science. Total -- 3 Units

## Admissions

Hearnes Hall-109, 625-9378

### Regular Admission

Students who have participated in a formal educational program within the past five years (high school or college) will be admitted if:

1. They rank in the upper two-thirds of their high school graduating class; or
2. They score above the 33rd percentile on the ACT national admissions test, or composite score of 17 (1991); or
3. The sum of the student's high school class percentile rank and the ACT percentile is 60 or greater.

Students who do not meet the standards quoted above may seek a waiver of this policy through the Admissions Office Appeal Committee.

**Admissions requirements are subject to change without notice.**

*The Admissions Office Appeal Committee:* The committee will act favorably to the appeal only if they determine the student has the ability to succeed and is appropriately motivated. Specific courses and/or a reduced load may be required. The committee may make one of three decisions: grant regular admission, grant special (probationary) admission; deny admission.

### Students With Previous College Experience

**Former MSSC Students** Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admissions of their intention to return.

When necessary, these students will be required to update their credentials.

**Transfer Students** Students transferring from another collegiate institution must present credentials listed on page 32, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Transfer students must adhere to the standards for progress toward graduation

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

**Transient Students** Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university.

**Non-Traditional Students** Students who have not participated in





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# Academic Regulations

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a formal educational program (high school or college) within the last five years may apply to the Admissions Office for a one-year waiver of academic admission requirements. Following that year, the student must supply regular credentials to the Admissions Office.

## Special Program Admissions

**International Students** International students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students (this page), international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75 percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

Freshman	Transfer
Fall Semester --July 1	Fall Semester--July 10
Spring Semester--November 1	Spring Semester--January 2
Summer Semester -April 1	Summer Semester--May 25

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75 percentile on the Michigan Test is required of these students.

**Credit-in-Escrow** The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of the high school principal.

**Special** A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probational basis. A student admitted under this regulation must

meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours of status of the student may be changed from "special" to "regular."

## Continuing Education

**Off-Campus Extension** Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

**Off-Campus--Credit** The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

**Off-Campus--Non-credit** Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of instructor.

## Credentials Required for Admission

### Regular Admission

- (1) **High School Transcript** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) **Placement Test** Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented, within three years from the time the test was taken, as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.
- (3) **Application** The application for admission must be completed one week before the first day of enrollment (see college calendar). This includes all credentials required by the Admissions Office.
- (4) **Application Fee** A fee of \$10 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)
- (5) **Admission for Non-residents of Missouri** A non-resident of Missouri is required to submit the same credentials as a resident.
- (6) **Veterans** Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of enrollment.
- (7) **Miscellaneous Requirements** Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri





# Academic Regulations

Southern within one year after making application must submit new credentials when seeking admission again.

## Special Admissions

The Health Sciences (nursing, dental hygiene and radiologic technology) Admission to Missouri Southern does not automatically confer admission to the nursing program, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See nursing department (page 149), dental hygiene department (page 141) or radiologic technology (page 150) under affiliated programs for full information on admission and acceptance criteria.

**Honors Program** This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should ask the Director of Admissions for an Honors Application form.

**Temporary** In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

**Return to Learn** Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

**60 Plus** This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

## Placement, Examinations, Credits Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will

be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

## Transfer of Resident Credits from a Junior College

Credits will be accepted by transfer from a junior college to meet lower division (freshman and sophomore, 100-200 level course) requirements only. A total of 64 semester hours of credit earned at a junior college is the maximum that may be applied toward a baccalaureate degree. After 64 semester hours have been earned by the student, credit should not be taken at a junior college. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

Students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

## Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

- be enrolled in college at the time of the examination;
- not have taken an examination over the course within the preceding six months;
- not have credit in a more advanced course in the same field;
- be working toward a degree at Missouri Southern State College;
- have the approval of the head of the department in which the course is offered;
- not use examination to replace a previously earned grade.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.



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## Academic Regulations

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**Credit-in-Escrow** The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of the high school principal.

**Special** A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probational basis. A student admitted under this regulation must meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours of status of the student may be changed from "special" to "regular."

### International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admissions Office for a detailed analysis of credits and standing.



### Advance Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.

### Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must:

- (a) be enrolled in college at the time the examination is taken;
- (b) present the necessary evidence to prove that the course was taken;
- (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered;
- (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

### The Honors Program

Entering students will be governed by policies clarified on page 29 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

### Graduation

- A. Graduation Requirements** The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.
- B. Time of Graduation** A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- C. Placement Services** Each degree candidate must register in the Office of Career Planning and Placement.
- D. Degree Candidacy Application** Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- E. Senior Assessment** All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.



# Academic Regulations

## Baccalaureate Degree Requirements

- A. **Residence** - The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)
- B. **Credit Hours** - At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. **Grade Point Average** - The following grade point averages are required for graduation:
  1. a 2.0 cumulative grade point average for all credit hours attempted;
  2. a 2.0 grade point average within the major (exception: selected majors may have other requirements);
  3. at least a 2.0 grade point average for all courses taken in the major department;
  4. a grade point average of 2.75 and an ACT composite score of 20 Enhanced as required for the Teacher Education Program.
- D. **Upper-Division Hours** - A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs. Within the 40 upper-division hours students must choose one course selected for area 4 or area 5 of the Core Curriculum program.
- E. **Writing Intensive** - Five courses of writing composition will be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:

Total hours at time transfer to Missouri Southern:	Minimum Writing Intensive courses required:
Less than 30 hours	Five courses as outlined above
30 to 59 hours	Three courses, with at least two at the junior/senior level, one of which must be in the major
60 to 89 hours	Two courses at the junior/senior level, one of which must be in the major
90 hours or more	One course in the major

- F. **Foreign Language** - All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.
- G. **Special Education** - All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.
- H. **Computer Literacy** - All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- I. **Major Field** - A minimum of one half of the upper division courses that are required for the major must be earned in residence at Missouri Southern.
- J. **Core Curriculum Requirements** - Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

## Baccalaureate Degree

### Area 1. Basic Requirements\*

	Credit Hours Required
A. <i>English Composition</i>	6
Freshman Year (Eng 101 and 102 OR achievement in the required competency level can be done in Eng 111 in 3 hours)	
B. <i>Communication</i>	3
Comm 100 Oral Communication	
C. <i>**Mathematics</i> (110 or above)	3
D. <i>Physical Education</i>	3
**HPER 103 Lifetime Wellness (2)	
**HPER 101 Physical Activity (1)	
<b>Total For Area 1</b>	<b>15 Hours</b>

### Area 2. Humanities And Fine Arts

A. <i>Select one</i>	3
Art 110 Art Appreciation (3)	
Mus 110 Music Appreciation (3)	
Th 110 Theatre Appreciation (3)	
B. <i>Select one</i>	3
Eng 261,262 World Masterpieces (3)	
Eng 271,272 English Masterpieces (3)	
Eng 281,282 American Literature (3)	
C. <i>Select one</i>	3
Eng 150 Introduction to Literature (3)	
Eng 305 Short Story (3)	
Eng 261,262 World Masterpieces (3)	
Eng 271,272 English Masterpieces (3)	
Eng 281,282 American Literature (3)	
Phil 201 Introduction to Philosophy (3)	
Art 110 Art Appreciation (3)	
Mus 110 Music Appreciation (3)	
Th 110 Theatre Appreciation (3)	
<b>Total For Area 2</b>	<b>9 Hours</b>



# Academic Regulations

## Area 3. Natural Science and Behavioral Sciences\*

A. <b>**Bio 101 General Biology</b>	4
B. <b>**Phy 100 Fundamentals of Physical Science</b>	5
C. <b>Select one</b>	3
**Psy 100 General Psychology (3)	
Soc 110 Sociology (3)	
<b>Total For Area 3</b>	<b>12 Hours</b>

## Area 4. American Cultural Studies\*

A. Hist 110 US History 1492-1877 and Hist 120 US History 1877-Present or Hist 320 US History 1877-Present	3
PSc 120 Gov't: U.S., State, Local	3
Econ 180 American Economic System (Majors and minors in business should take Econ 201)	3
<b>Total For Area 4</b>	<b>12 Hours</b>

## Area 5. International Cultural Studies\*

A. <b>Select one:</b>	3
Hist 130 or 140 Western Civ (3)	
Geog 211 Regions and Nations (3)	
Soc 155 Phys Anthropology & Archeology (3)	
Foreign Language (3)	
GB 310 International Business (3)	
Soc 342 Comparative Cultures (3)	
Comm 305 Intercultural Communication (3)	
<b>Total for Area 5</b>	<b>3 Hours</b>

**Total Core Curriculum Requirements** **51 Hours**

\*Occasionally, selected courses may be substituted for this area.  
\*\*See degree requirements listed in the Catalog for courses that are substituted for specific majors.

## Associate Degree Requirements

### Associate of Arts Degree

- Credit Hours** - A minimum 64 semester hours must be completed.
- Residence** - The last 15 semester hours must be completed in residence at Missouri Southern.
- Grade Point Average** - Minimum cumulative and major field grade point average must be 2.0.
- Major Field** - The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.
- Core Curriculum Requirements** - The degree requires completion of the following Core Curriculum requirements:

#### Area 1. Basic Requirements\*

- English Composition**  
Freshman year (Eng 101 and Eng 102 OR  
achievement in the required competency  
level can be done in Eng 111 in 3 hours)

Credit Hours  
Required  
**6**

B. <b>**Comm 100 Oral Communication</b>	3
C. <b>**Mathematics (Math 110 or above)</b>	3
D. <b>Physical Education</b>	3
**HPER 103 Lifetime Wellness (2)	
**HPER 101 Physical Activity (1)	
<b>Total for Area 1</b>	<b>15 Hours</b>

## Area 2. Humanities and Fine Arts\*

A. <b>Select one</b>	3
Art 110 Art Appreciation (3)	
Mus 110 Music Appreciation (3)	
Th 110 Theatre Appreciation (3)	
B. <b>Select one</b>	3
Eng 261,262 World Masterpieces (3)	
Eng 271,272 English Masterpieces (3)	
Eng 281,282 American Literature (3)	
C. <b>Select one</b>	3
Eng 150 Introduction to Literature (3)	
Eng 305 Short Story (3)	
Eng 261,262 World Masterpieces (3)	
Eng 271,272 English Masterpieces (3)	
Eng 281,282 American Literature (3)	
Phil 201 Introduction to Philosophy (3)	
Art 110 Art Appreciation (3)	
Mus 110 Music Appreciation (3)	
Th 110 Theatre Appreciation (3)	
Foreign Language (3)	
<b>Total for Area 2</b>	<b>9 Hours</b>

## Area 3. Natural Sciences\*

A. <b>**Bio 101 General Biology</b>	4
AND	5
<b>**Phys 100 Fundamentals of Physical Science</b>	
<b>Total for Area 3</b>	<b>9 Hours</b>

## Area 4. Social and Behavioral Sciences\*

A. <b>PSc 120 Gov't: U.S., State, Local</b>	3
B. <b>Hist 110 U.S. History 1492-1877</b>	3
OR	
<b>Hist 120 U.S. History 1877-Present</b> (3)	
C. <b>Select One:</b>	3
Hist 130 or 140 Western Civ (3)	
Geog 221 Regions and Nations (3)	
Soc 155 Phys Anthropology & Archeology (3)	
Soc 110 Sociology (3)	
Psy 100 General Psychology (3)	
**Econ 180 American Economic System (3)	
<b>Total For Area 4</b>	<b>9 Hours</b>

**Total Core Curriculum Hours** **42 Hours**

\*Occasionally, selected courses may be substituted for this area.  
\*\*See degree requirements listed in the Catalog for courses that are substituted for specific majors.

### Associate of Science Degree

- Credit Hours** - A minimum of 64 hours must be completed.
- Residence** - The last 15 semester hours must be completed in residence at Missouri Southern.



## Academic Regulations

- C. **Grade Point Average** - The minimum cumulative and major field grade point average must be 2.0.
- D. **Major Field** - The student must meet the course requirements in the particular program of study as approved by an adviser.
- E. **Core Curriculum Requirements** - The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

### Area 1. Basic Requirements\*

- A. Eng 101 English Composition
- B. \*\*Comm 100 Oral Communication
- C. \*\*Math 30 (or above)
- D. Physical Education
  - \*\* HPER 103 Lifetime Wellness
  - \*\* HPER 101 Physical Activity

Total for Area 1

Credit Hours  
Required

3

3

3

3

## 12 Hours

## Area 2. Humanities and Fine Arts\*

- A. **Select One:**
- |                                     |     |
|-------------------------------------|-----|
| Art 110 Art Appreciation            | (3) |
| Mus 110 Music Appreciation          | (3) |
| Th 110 Theatre Appreciation         | (3) |
| Any literature except 325           | (3) |
| Phil 201 Introduction to Philosophy | (3) |

**Total for Area 2**

3

### 3 Hours

### Area 3. Natural Science\*

- A. **\*\*Bio 101 General Biology**  
B. **\*\*Phy 100 Fundamentals of Physical Science**

**Total for Area 3**

4

5

### 4-5 Hours

#### Area 4. Social and Behavioral Sciences\*

- A. Select One:**  
PSc 120 Gov't: U.S., State, Local (3)  
Hist 110 OR  
Hist 120 United States History (3)
- B. Select One:**  
Psy 100 General Psychology (3)  
Soc 110 Introduction to Sociology (3)  
\*\*Econ 180 American Economic System (3)

**Total for Area 4**

3

3

### 6 Hours

### Total Core Curriculum Requirements

## 25-26 Hours

\*\*See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.

## A Bachelor of General Studies (B.G.S.) Degree

B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

### Academic Minor

Selected departments have developed an academic minor that in conjunction with the major strengthens the students vocational preparation. See each department for details.

## Special Requirements

### Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.

B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

### State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the state of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum Requirements meet the requirements of Missouri law. Out of state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two



# Academic Regulations

or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

## Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's Office. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

## General Regulations

### Classification of Students

#### A. By Class:

- Freshman: 0-29 Hours
- Sophomore: 30-59 Hours
- Junior: 60-89 Hours
- Senior: 90 and above
- Special Admission: See College Catalog

#### B. Postgraduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

#### C. Full-time:

A student enrolled for 12 or more semester hours.

#### D. Part-time:

A student enrolled in 11 or less semester hours.

### Dual Credit

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

### Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

### Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

### Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

### Late Enrollment

No student will be permitted to enroll in a regular semester after the first week of classes and or after the third day of classes in a summer session. Any student enrolling after classes begin will pay a late enrollment fee.

### Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearnes Hall). A student who withdraws prior to the end of the ninth week of a regular semester and the end of the 25th day of a summer session will receive a "W" on the permanent record. If the student withdraws after these deadlines, courses will be listed on the permanent record with a grade of "F." A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

### Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

### Adding Courses

A student may add a course in the Registrar's Office, but only upon the approval of an adviser. A fee of \$5.00 will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester and after the third day of classes in the summer session.

### Class Attendance

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern.

The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his evaluation on how well the student has achieved the course goals.

In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of Financial Aid.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence. Students who are absent two class meetings more than the credit hours of the



# Academic Regulations

course may be dropped from the course with approval of the Vice President of Academic Affairs.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

## Grades and Grading Policies

### Grading System

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade	Grade Points
A Outstanding	4
B Above Average	3
C Average	2
D Minimum Passing	1
F Failing	0
W Withdrawal	

The current policy for the "W" grade is as follows:

- (a) Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- (b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- (c) Course withdrawals are not permitted after the seventh week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.

**I Incomplete** A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F."

**AU Audit** A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

### Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the immediate supervisor, school dean and Vice President for Academic Affairs.

### Independent Study

Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed:
  - Associate Degree - 30 hours
  - Baccalaureate Degree - 90 hours
2. have a minimum cumulative 3.00 GPA
3. have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

### Posting of Grades

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

### Official Transcript

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.





# Academic Regulations

## Academic Standards

### Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See College Catalog (page 22).

Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

### Academic Bankruptcy

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

### Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

### Standards of Progress Toward Graduation\*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

#### A. For Associate Degree

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours .....	1.6
23 - 33 semester hours .....	1.7
34 - 44 semester hours .....	1.8
45 - 55 semester hours .....	1.9
56 & Above .....	2.0

#### B. For Baccalaureate Degree

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours .....	1.5

23 - 44 semester hours .....	1.6
45 - 66 semester hours .....	1.7
67 - 68 semester hours .....	1.8
89 - 110 semester hours .....	1.9
111 & Above .....	2.0

\*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

### Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension must stay out of Missouri Southern for one semester.

Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

### Repetition of Courses

A course in which a student has made a grade of "D" or "F" may be repeated. The grade and grade points in the repeated class will be canceled and the second grade will be used in computing grade point averages.

### 298-498 Classes

Classes numbered 298 or 498 may not be counted toward Core Curriculum credit.

### Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."





# Academic Regulations

## Graduation Honors

In recognition of superior scholarships the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the students' permanent record.

**Associate Degree** - The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

**Baccalaureate Degree** - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3.70-3.79

## Course Numbers and Levels

Course Numbers:

- 0 - 99 Applicable toward the associate degree only
- 100 - 199 Primarily for freshmen
- 200 - 299 Primarily for sophomores
- 300 - 399 Primarily for juniors
- 400 - 499 Primarily for seniors

Normally, courses numbered 100-299 are considered junior or lower division level courses and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment, or other factors dictate.

## Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend part-time or full-time.

## Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

## Special Policies for Financial Aid Recipients

Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.

## Catalog Time Limit

A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidates first registration at MSSC provided it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence, at MSSC, during the year of the catalog selected.

**Transfer Student:** The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The transfer student must have had continuous enrollment and remain in the same degree program. The catalog used may not be dated more than five years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

*The degree requirements in the 1991-93 Catalog, became effective June 1, 1991.*

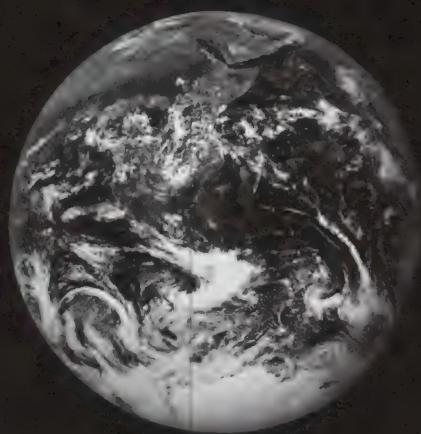








THE  
SCHOOL  
OF  
ARTS  
&  
SCIENCES





# School of Arts and Sciences

## School Dean

Ray A. Malzahn  
Hearnes Hall 318, 625-9385

## Degrees and Majors

### Bachelor of Arts

Art  
Communications  
Chemistry  
English  
History  
Music  
Political Science  
Sociology  
Spanish  
Theatre

### Bachelor of Science

Biology  
Chemistry  
Mathematics  
Physics  
Sociology

### Bachelor of Science in Education

Art  
Biology  
Chemistry  
English  
Mathematics  
Music  
Physics  
Social Science  
Spanish  
Speech-Theatre

### Options and Emphases

Art (B.A.)  
Studio Art  
Graphic Communications  
Communications (B.A.)  
Speech Communications  
Mass Communications  
Music (B.S.E.)  
Instrumental  
Vocal  
Double Certification

### Social Sciences (B.S.E.)

History  
Political Science  
Sociology

### Minors:

See Departments

## Role

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at

Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

## Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.

## Art

Art Building 303, 625-9563

**Faculty** Schwieger - Head, Christensen, Fowler, Goldman, Hess, Noblett

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates with a bachelor of science in education degree with a major

in art are certified through the teacher education program to teach on K-12 or the senior high school levels (7-12) in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

## Bachelor of Arts with a Major in Art

### Emphasis I Studio Art

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Computer Literacy Requirement - determined by the art department</b>	<b>2-3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>Art Requirements</b>	<b>53</b>
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture*	3
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 312 Beginning Printmaking*	3



Art 490 Senior Exhibit*	2
Electives (300 - 400 level courses)	18
<b>Electives</b>	<b>9-10</b>
	<b>128**</b>

\*See Prerequisites

\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Arts with a Major in Art

### Emphasis II

#### Graphic Communications

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Computer Literacy Requirement - determined by the art department</b>	<b>1-3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>Art Requirements</b>	<b>53</b>
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture*	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 300 Advanced Drawing*	3
OR	
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communications I*	3
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*	3
Art 450 Graphic Communications IV*	3
Art 490 Senior Exhibit*	2
<b>Electives**</b>	<b>9-10</b>
	<b>128***</b>

\*See Prerequisites

\*\*Suggested Elective Courses

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

OA 101 Typewriting	3
CADD 110 Introductory Drafting	3
Comm 120 Mass Communications	3
CJAd 210 Beginning Photography	3
MM 300 Principles of Marketing	3
Bus 320 Business Communication	3
MM 401 Promotional Strategy	3
Th 441 Stage Design	3

Cadd 115 Intro to CAD****	3
Comp 105 Intro to Micro Use****	3
Comp 115 Computing I****	3
****Satisfies departmental computer literacy requirement (select one).	

## Bachelor of Science in Education with a Major in Art

### Plan A

#### One of Two Teaching Fields

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>48</b>
<b>Art Requirements</b>	<b>41</b>
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 132 Introduction to Design	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History (upper division)	9
<b>Art Electives</b>	<b>3</b>
<b>Second Teaching Field (some fields exceed 30 hours)</b>	<b>30</b>
<b>Education Certification Requirements (page 118)</b>	<b>40-41</b>
	<b>159-160***</b>

\*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum.

Area 3C

\*\*See Prerequisites included with course descriptions

\*\*\* (Varies with 2nd Field)

## Bachelor of Science in Education with a Major in Art

### Plan B Single Teaching Field

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>48</b>
<b>Art Requirements</b>	<b>49</b>
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 200 Arts & Crafts	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	2
Art 132 Introduction to Design	3
OR	
Art 230 Basic Form**	3

Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History	9
Art 490 Senior Exhibit	2
Art Electives	12

### Education Certification Requirements

(page 118) **40-41**  
**137-138**

\*Psy 100 satisfies certification requirements and 3 hours of the Core Curriculum. Area 3C

\*\*See Prerequisites included with course descriptions

## Minor in Art

	Semester Hours
Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing	3
Art 312 Beginning Printmaking*	3
Art 211 Beginning Sculpture*	3
OR	
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3
Art 110 Art Appreciation	3
OR	
Art Art History	3
Art 232 Beginning Painting*	3
OR	
Art 310 Watercolor*	3
	<b>21</b>

\*See Prerequisites included with course descriptions

## Suggested Orders of Study

**Bachelor of Arts**  
Major Code 1002  
**Art Major**  
**Emphasis I: Studio Art**

### Freshman Year

1st Semester	Course	Hours
	Art 100 Art Composition	3
	Art 130 Beginning Drawing	3
	CORE [Eng 101 Comp I]	3
	CORE [Math 110 Intro to Col Math]	3
	CORE [Hist 110 U.S. History]	3
	CORE [HPER 103 Lifetime Wellness]	2
		<b>17</b>

### 2nd Semester

	Art 132 Intro to Design	3
	Art 120 Beginning Ceramics	3
	CORE [Eng 102 Comp II]	3
	CORE [Comm 100 Oral Comm]	3
	CORE [Hist 120 U.S. History]	3
	CORE [HPER 101 Physical Activity]	1
		<b>16</b>



# Art

## Sophomore Year

### 1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	3
CORE	[Bio 101 General Biology]	4
CORE	[Comp 105 Computer Literacy]	3
Art	Electives approved by the adviser***	3
		16

### 2nd Semester

Art 110	Art Apprec	3
Art 211	Beginning Sculpture*	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Soc 110 Intro to Sociology]	3
Art	Electives***	3
		17

## Junior Year

### 1st Semester

Foreign Language		3
CORE	[Mus 110 Music Apprec]	3
OR		
CORE	[Th 110 Theatre Apprec]	3
CORE	[Hist 130/140 Western Civilization]	3
Art	Electives***	6
		15

### 2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Foreign Language		3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
Art	Elective***	3
		15

## Senior Year

### 1st Semester

Art	Art History**	3
Art 490	Senior Exhibit*	2
CORE	[Eng 281/282 American Lit]	3
Art	Electives***	3
CORE	[Econ 180 Amer Econ System]	3
Foreign Language		3
		17

### 2nd Semester

Art	Art History**	3
Art	Electives***	6
Electives	Approved by the adviser***	6
Foreign Language		3
		18

\*See Prerequisites

\*\*9 hours required--select from Art 301, 302, 303 or 304 Art History

\*\*\*Select from 300 or 400 level courses

[]Department Recommendation

## Bachelor of Arts

Major Code 1002

### Art Major

Emphasis II: Graphic Communications

## Freshman Year

### 1st Semester

Course		Hours
Art 100	Art Composition	3
Art 130	Beginning Drawing	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Psy 120 College Orientation]	1

### 2nd Semester

Art 132	Intro to Design	3
Art 120	Beginning Ceramics	3
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 120 U.S. History]	3
		16

## Sophomore Year

### 1st Semester

Art 205	Beginning Jewelry*	
OR		
Art 320	Basic Form*	3
Art 310	Watercolor*	3
Elective	[OA 101 Typewriting]	3
CORE	[Bio 101 General Biology]	4
CORE	[Eng 271/272 English Lit]	3
		16

### 2nd Semester

Art 211	Beginning Sculpture*	3
Art 232	Beginning Painting*	3
Elective	[CADD 110 Intro to Drafting]	3
CORE	[Phys 100 Phys Sci]	5
CORE	[Eng 281/282 American Lit]	3
		17

## Junior Year

### 1st Semester

Art 110	Art Apprec	3
Art 300	Advanced Drawing*	
OR		
Art 412	Life Drawing*	3
Art 325	Graphic Comm I*	3
Foreign Language		3
CORE	[Hist 130/140 Western Civilization]	3
		15

### 2nd Semester

Art	Art History**	3
Art 312	Beginning Printmaking*	3
Art 350	Graphic Comm II*	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
		15

## Senior Year

### 1st Semester

Art	Art History**	3
Art 490	Senior Exhibit*	2
Art 425	Graphic Comm III*	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		11

Elective	[MM 300 Prin of Marketing]	3
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## Foreign Language

3

17

### 2nd Semester

Art	Art History**	3
Art 450	Graphic Comm IV****	3
CORE	[Econ 180 Amer Econ System]	3
Elective	[Bus 320 Bus Comm]	3
Elective	[CJAD 210 Beginning Photography]	3
		18

## Foreign Language

3

18

\*See Prerequisites

\*\*9 hours required--select from Art 301, 302, 303, 304 or 305

\*\*\*Satisfies departmental requirement for a computer application course.

## Bachelor of Science in Education

Major Code 0831

Art Major (Plan B) Single Teaching Field

## Freshman Year

### 1st Semester

Course		Hours
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
Art 100	Art Composition	3
CORE	Eng 101 Comp I	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Psy 120 College Orientation]	1
		16

### 2nd Semester

Art 110	Art Apprec	3
Art 130	Beginning Drawing	3
Art 132	Intro to Design	
OR		
Art 230	Basic Form*	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
Psy 301	Adolescent Psychology	3
		19

## Sophomore Year

### 1st Semester

Educ 200	Orientation to Educ II	1
Art 200	Arts & Crafts	3
Art 220	Art Education	2
Art	Elective	3
CORE	[Bio 101 General Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		19

### 2nd Semester

Apply for admission to Teacher Education

Educ/Psy	The Exceptional Child	2
302		
Educ 401	Computer Software	2
	If computer literacy requirement is not met in the specialty department.	
Art 211	Beginning Sculpture*	3



# Biology

Art 232 Beginning Painting\*  
CORE [Eng 281/282 American Lit]  
CORE [Phys 100 Fund of Phys Sci]

## Junior Year

### 1st Semester

#### Pass Media Competencies

Psy 310 Educational Psychology  
Educ 329 Pedagogical Theory, Methods & Practices  
Educ 321 Microteaching  
Educ 423 Classroom Management  
Note: See Ed 420 below\*\*\*\*  
Art Art History\*\*  
CORE [Hist 130/140 Western Civilization]

### 2nd Semester

Educ 422 Teaching Reading in the Sec School  
Art 120 Beginning Ceramics  
Art Art History\*\*  
Art 312 Beginning Printmaking\*  
Art Elective  
CORE [Econ 180 Amer Econ System]

## Senior Year

### 1st Semester

*Apply for student teaching. All course work must be completed except for professional semester courses.*

Art Art History\*\*  
Art 490 Senior Exhibit\*  
Art Elective  
CORE [Eng 271/272 English Lit]  
CORE [Hist 120 U.S. History]

### 2nd Semester

Educ 337 Teaching Art in the Sec School  
Educ 402 Foundations of Educ  
Educ 432 Critical Issues  
Select one:  
Educ 412 Individual Curriculum Development (2)  
Educ 420 Intro to Counseling\*\*\*\* (3)  
(Offered at night only. Must be taken the semester prior to student teaching.)  
Psy 412 Meas & Eval in Educ & Psychology(2)  
Educ 462 Student Teaching in Sec School

\*See Prerequisites

\*\*9 hrs. required--select from Art 301, 302, 303 or 304 Art History

\*\*\*Satisfies departmental requirement for a computer application course.

[ ]Departmental Recommendation

After accumulating 21 hrs. in art, students should make application for their Junior Review via their adviser.

3 Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

18

For additional information contact:

Art Department Head  
Office: Art Building 303  
Phone: 625-9563

## Biology

Reynolds Hall 210, 625-9376

**Faculty** Messick - Head, Adams, Bingman, Gibson, Jackson, Prentice, Schlink, Stebbins, Tillman

16 Biology, biology education and environmental health technology majors, take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

17 The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, General Zoology, satisfies the biological science requirement for students in nursing and certain other majors.

## Bachelor of Science with a Major in Biology

Semester Hours

**Core Curriculum Requirements** (page 35) 51\* 39

**Computer Literacy Requirement** determined by the biology department 2-3

**Biology Requirements** 40

Bio 101 General Biology 4  
Bio 112 Botanical Survey\*\* 3  
Bio 122 Zoological Survey\*\* 3  
Bio 210 General Physiology\*\* 4  
Bio 211 Microbiology\*\*

OR

Bio 231 Medical Microbiology\*\* 5  
Bio 305 Genetics\*\* 4  
Bio 490 Seminar\*\* 1  
Bio Upper Division Botany Elective\*\* 3-4

Bio Upper Division Zoology Elective\*\* 4-5  
Bio Upper Division Environmental Elective\*\* 4

Bio Electives 3-5

**Supporting Requirements** 25  
Math 140 Algebra and Trig\*\*

OR

Math 150 Calculus with Analytic Geometry I\*\* 5  
Chem 101 General Chemistry I\*\* 5  
Chem 102 General Chemistry II\*\* 5  
Chem 300 Intro to Modern Organic Chemistry\*\*

OR

Chem 301 Organic Chemistry I\*\* 5  
Phys 151 Elem College Physics I\*\* 5  
Electives 21-22  
128\*\*\*

\*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three junior or senior level WI classes, at least one of which must be an upper division course in the major.

Preprofessional students should take Chem 302 and Phys 152. Preveterinary medicine majors must complete Bio 261 Animal Nutrition before the second semester of the senior year.

## Bachelor of Science in Education with a Major in Biology

### Plan A

#### One of Two Teaching Fields

See: Minors-Biology Education

## Bachelor of Science in Education with a Major in Biology

### Plan B Single Teaching Field

Semester Hours

**Core Curriculum Requirements** (page 35) 51\* 36

**Computer Literacy Requirement** - determined by the biology department 2-3

**Biology Requirements** 35

Bio 101 General Biology 4  
Bio 112 Botanical Survey\*\* 3  
Bio 122 Zoological Survey\*\* 3  
Bio 211 Microbiology\*\*

OR

Bio 231 Medical Microbiology\*\* 5  
Bio 305 Genetics\*\* 4



# Biology

Bio 306	Human Physiology and Anatomy**	5
Bio	Upper Division Biology Electives (Bio 499 Problems in Biology 2-4 hrs. and Bio 312 Environmental Biology or Bio 402 Ecology 4 hrs. are required for certification)	11
<b>Supporting Requirements</b>		<b>32-33</b>
Math 140	Algebra and Trig**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Intro to Modern Organic Chemistry**	
OR		
Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I	5
Geol 110	Intro to Geology (5 hrs.)	
OR		
Geol 300	Environmental Geology (4 hrs.)	5-4
Phys 180	Intro to Meteorology	3
<b>Education Certification Requirements (page 118)</b>		<b>39-41</b>
		<b>144-148</b>

\*Required courses in biology, chemistry, mathematics, physics and psychology satisfy major requirements and 15 hrs. of the Core Curriculum.

\*\*See Prerequisites

Biology education majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three junior or senior level WI classes, at least one of which must be an upper division course in the major.

## Environmental Health Technology

See page 144

## Minors in Biology

### Minor in biology (botany-horticulture emphasis)

	Semester	Hours
Chem 100	Introductory Chemistry	5
Bio 101	General Biology	4
Bio 112	Botanical Survey	3
Bio 316	Economic Botany	3
Bio 271	Prin of Plant Propagation	3
Bio 440	Plant Pathology	4
Bio 322	Taxonomy of Flowering Plants	4
Bio 332	Intro to Entomology	3
Bio 499	Problems in Biology (1-3 hrs.)	

OR		
Bio 450	Internship in Biology (1-8 hrs.)	1-8 30-37

### Minor in biology (zoology-health science emphasis)

Bio 101	General Biology	4
Bio 122	Zoological Survey	3
Bio 331	Comparative Anatomy	5
Bio 431	Animal Physiology	5
Bio 433	Histology (4 hrs.)	
OR		
Bio 462	Embryology (5 hrs.)	4-5
Bio 422	Invertebrate Zoology (5 hrs.)	
OR		
Bio 361	Parasitology (4 hrs.)	4-5
Bio 499	Problems in Biology	1-3 26-30

### Minor in biology (environmental health emphasis)

Bio 110	General Biology	4
Bio 231	Medical Microbiology	5
Bio 312	Environmental Biology	
OR		
Bio 370	Environmental Health	4
Bio 499	Problems in Biology (1-3 hrs.)	
AND/OR		
Bio 450	Internship in Biology (1-8 hrs.)	1-8 21-30
Upper Division Biology or Environmental Health Electives		7-9

### Minor in biology (biology education)

Bio 101	General Biology	4
Bio 112	Botanical Survey	3
Bio 122	Zoological Survey	3
Bio 211	Microbiology	
OR		
Bio 231	Medical Microbiology	5
Bio 305	Genetics	4
Bio 306	Human Physiology and Anatomy	5
Bio 499	Problems in Biology	2 26

Completion of the *biology education minor* plus the following courses will qualify the student for certification in biology for grades 7-12 and is Plan A for the bachelor of science in education:

Math 140	Algebra and Trig	5
Chem 101	General Chemistry I	5
Phys 151	Elem College Physics I	5
Bio 312	Environmental Biology	

OR		
Bio 402	General Ecology	
OR		
Bio 481	Aquatic Ecology	4
Geol 110	Intro to Geology (5 hrs.)	
OR		
Geol 300	Environmental Geology (4 hrs.)	4-5
Phys 180	Intro to Meteorology	3 26-27

Biology education majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three junior or senior level WI classes, at least one of which must be an upper division course in the major.

## Suggested Orders of Study

Bachelor of Science		
Major Code 0401		
Biology Major		
Freshman Year		
1st Semester		
Course		Hours
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Hist 110 U.S. History]	3
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		<b>15</b>
2nd Semester		
Bio 122	Zoological Survey (Bio 101)	3
Math 140	Algebra and Trig	5
CORE	[Eng 102 Comp II]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		<b>17</b>
Sophomore Year		
1st Semester		
Bio 112	Botanical Survey (Bio 101)	3
Bio 211	Microbiology (Bio 101)	
OR		
Bio 231	Medical Microbiology (Bio 101)	5
Chem 101	General Chemistry I (Math 140)	5
CORE	[Econ 180 Amer Econ System]	3
		<b>16</b>
2nd Semester		
Bio 305	Genetics (Bio 101)	4
Bio 210	General Physiology (Bio 112, 122, Chem 102)	4
Chem 102	General Chemistry II (Chem 101)	5
Bio 303	Computer Applications in Biology (consent)	
OR		
Approved computing course		2-3 <b>15-16</b>



# Biology

## Junior Year

### 1st Semester

Bio 331	Comparative Vertebrate Anatomy (Bio 122)	5
Chem 301	Organic Chemistry I (Chem 102)	5
Phys 151	Elem College Physics I (Math 140)	5
CORE	[International Cultural Studies]	3

### 2nd Semester

Bio 431	Animal Physiology (10 hrs. biology)	5
OR		
Bio 433	Histology (consent)	5
OR		
Bio 462	Embryology (Bio 331)	4-5
Bio 322	Plant Taxonomy	4
CORE	[Humanities and Fine Arts]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 320 U.S. History 1877-Present]	3

## Senior Year

### 1st Semester

Bio 362	Virology (Bio 211 or 231, 305)	3
Bio 371	Plant Physiology (Bio 210)	4
Bio 490	Seminar (consent)	1
Bio	Electives	2
CORE	[Behavioral Science]	3
CORE	[HPER 103 Lifetime Wellness]	2

### 2nd Semester

Bio 402	Ecology (Bio 112, 122)	4
OR		
Bio 481	Aquatic Ecology (Bio 122)	4
Bio 456	Immunology (Bio 211 or 231, 305)	3
Bio	Electives	9

[ ] Department Recommendation

[ ] Prerequisite

Program must satisfy Writing Intensive requirements. (See page 35)

For additional information contact:

Dr. John Messick

Office: Reynolds Hall 215

Phone: 625-9617

## Bachelor of Science in Education

Major Code 0840

### Biology Major (Plan B)

#### Single Teaching Field

### Freshman Year

#### 1st Semester

1st Semester		Hours
Course		
Bio 101	General Biology	4
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History 1877- Present]	3
Educ 100	Orientation to Education	1
Psy 100	General Psychology	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1

### 2nd Semester

Bio 122	Zoology Survey (Bio 101)	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
Math 140	Algebra & Trig	5
Psy 301	Adolescent Psychology	3

## Sophomore Year

### 1st Semester

Bio 112	Botanical Survey (Bio 101)	3
Chem 101	General Chemistry I (Math 130 or Math 140)	5
CORE	[PSc 120 Gov't: U.S., State, Local]	3
CORE	[HPER 101 Physical Activity]	1
Educ 200	Orientation to Education II	1
Phys 151	Elem College Physics I (Math 140)	5

### 2nd Semester

Apply for admission to teacher education

Bio 211	Microbiology (Bio 101)	5
Bio 305	Genetics (Bio 101)	4
Bio 303	Computer Applications in Biology (consent)	2-3

OR

Approved computing course	2-3
Chem 102 General Chemistry II (Chem 101)	5
Educ 302 [Psy 302] The Exceptional Child	2
	<b>18-19</b>

### Summer Semester

CORE	[Humanities and Fine Arts]	3
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## Junior Year

### 1st Semester

#### Pass Media Competencies

Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
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OR

Chem 301	Organic Chemistry I (Chem 102)	5
Educ 329	Pedagogical Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
CORE	[HPER 103 Lifetime Wellness]	2
Psy 310	Education Psychology	2

### 2nd Semester

Bio 402	General Ecology (Bio 112, 122)	4
Bio	Electives	5
CORE	[Humanities and Fine Arts]	3
CORE	[History 320 U.S. History 1877-Present]	3
Educ 422	Teaching Reading in the Sec School	2

## Senior Year

### 1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Bio 306	Human Physiology & Anatomy (Bio 121 or consent)	5
Bio 499	Problems in Biology	2
Bio	Electives	5
CORE	[Econ 180 Amer Econ System]	3
CORE	[International Cultural Studies]	3

### 2nd Semester

Educ 333	Teaching Science in the Sec School	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Select One:		
Educ 412	Individual Curriculum Development (2)	
Educ 420	Intro to Counseling (3)	
	Offered at night only. Must be taken prior to student teaching.	
Psy 412	Measurement & Evaluation in Education & Psychology (2)	2-3
Educ 462	Student Teaching in Sec School	8

( ) Prerequisite

[ ] Department Recommendation-not necessarily in this order

Program must satisfy writing intensive requirements. (See page )

For additional information contact:

Dr. Vonnie R. Prentice

Office: Reynolds Hall 320

Phone: 625-9539

### Major Code 7005

#### Premedicine

### Major Code 7002

#### Predentistry

### Major Code 7005

#### Preveterinary

This program will also qualify the student for the bachelor of science in biology, major code 0401.

## Freshman Year

### 1st Semester

Course		Hours
Bio 101	General Biology	4
Chem 101	General Chemistry I (Math 140)	5
Math 140	Algebra & Trig	
OR		
Math 150	Calculus w/Analytic Geometry	5
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
		16

### 2nd Semester

Course		
Bio 122	Zoological Survey (Bio 101)	3
Chem 102	General Chemistry II (Chem 101)	5
CORE	[Psy 100 General Psychology]	3
CORE	[Eng 101 Comp I]	3

### Summer Semester

CORE	[Comm 100 Oral Comm]	3
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# Biology

CORE [Humanities and Fine Arts] 3  
6

## Sophomore Year

1st Semester  
Course  
Bio 112 Botanical Survey (Bio 101) 3  
Bio 211 Microbiology (Bio 101) 5  
Phys 151 Elem College Physics I (Math 140) 5

CORE [HPER 103 Lifetime Wellness] 2  
CORE [Eng 102 Comp II] 3  
18

## Summer Semester

Course  
Bio 306 Human Physiology and Anatomy (Bio 121 or consent) 5  
CORE [Hist 110 U.S. History 1877-Present] 3

## 2nd Semester

Course  
Bio 305 Genetics (Bio 101) 4  
Phys 152 Elem Physics II (Phys 151) 3  
Bio 303 Computer Applications in Biology (consent)

OR  
Approved computing class 2-3  
Bio 210 General Physiology (Bio 122 & Chem 102) 4  
CORE [Humanities and Fine Arts] 3  
16-17

## Junior Year

1st Semester  
Course  
Bio 331 Comparative Anatomy (Bio 122) 5  
Chem 301 Organic Chemistry I (Chem 102) 5  
CORE [Econ 180 Amer Econ System] 3  
CORE [Humanities and Fine Arts] 3  
16

## 2nd Semester

Course  
Bio 318 Cell Biology (consent) (4) 4  
OR  
Bio 456 Immunology (Bio 211 or 231, 305) (3) 4-3  
Chem 302 Organic Chemistry II (Chem 301) 5  
Bio 462 Embryology (Bio 331) 5  
13-14

## Senior Year

1st Semester  
Course  
Bio 316 Economic Botany (Bio 112) 3  
Bio 431 Animal Physiology (10 hrs. biology) (5)

OR  
Bio 433 Histology (consent) (4) 5-4  
Bio 490 Seminar (consent) 1  
Chem 201 Analytic Chemistry I (Chem 102) 5  
13-14

## 2nd Semester

Course  
Bio 402 General Ecology (Bio 112, 122) 4

CORE [International Cultural Studies] 3  
CORE [Hist 320 U.S. History 1877-Present] 3  
CORE [PSc 120 Gov't: U.S., State, Local] 3

Math 310 Elem Statistics (Math 130) 3  
16

\*Preveterinary students also must enroll in Animal Nutrition prior to acceptance at the University of Missouri Veterinary School.

Students also should check with the premedicine adviser about specific professional schools. Individual schools may have other specific requirements.  
Program must satisfy Writing Intensive requirements. (See page 35)

[] Department Recommendation  
() Prerequisite

For additional information contact:  
Dr. Vonnie R. Prentice (Premedicine)  
Office: Reynolds Hall 320  
Phone: 625-9539

Dr. Gerald Schlink (Preveterinary)  
Office: Reynolds Hall 313B  
Phone: 625-9764

Mr. David Tillman (Predental)  
Office: Reynolds Hall 317D  
Phone: 625-9698

Major Code 7006

## Preoptometry

This program also will qualify the student for the bachelor of science in biology.

## Freshman Year

1st Semester  
Course  
Bio 101 General Biology\* 4  
Chem 101 General Chemistry I (Math 140)\* 5  
Math 140 Algebra & Trig 5  
Psy 120 College Orientation 1  
CORE [HPER 101 Physical Activity] 1  
16

## 2nd Semester

Course  
Bio 122 Zoological Survey (Bio 101) 3  
Chem 102 General Chemistry II (Chem 101)\* 5  
CORE [Eng 101 Comp I]\* 3  
CORE [Psy 100 General Psychology]\* 3  
CORE [Comm 100 Oral Comm]\* 3  
17

## Sophomore Year

1st Semester  
Course  
Bio 112 Botanical Survey (Bio 101)\* 3  
Bio 305 Genetics (Bio 101) 4  
CORE [Eng 102 Comp II]\* 3  
Math 150 Calculus with Analytic Geometry (Math 140)\* 5  
CORE [HPER 103 Lifetime Wellness] 2  
17

## 2nd Semester

Course  
Bio 211 Microbiology (Bio 101) 5  
Bio 210 General Physiology (Bio 112, 122 and Chem 102)\* 4  
Bio 303 Computer Applications in Biology (consent)

OR  
Approved computing class 2-3  
CORE [Econ 180 Amer Econ System] 3  
CORE [Hist 110 U.S. History 1877-Present]\* 3  
17-18

## Junior Year

1st Semester  
Course  
Phys 151 Elem College Physics I (Math 140)\* 5  
Chem 301 Organic Chemistry I (Chem 102)\* 5

Bio 433 Histology (consent) 4  
Psy 300 Child Development  
OR  
Psy 301 Adolescent Psychology 3  
17

## 2nd Semester

Course  
Phys 152 Elem College Physics II (Phys 151)\* 3  
Chem 302 Organic Chemistry II (Chem 301) 5  
Bio 318 Cell Biology (consent) (4)

OR  
Bio 456 Immunology (Bio 211 or 231 & 305) (3) 4-3  
Math 310 Elem Statistics\* 3  
CORE [Humanities and Fine Arts] 3  
17-18

## Senior Year

1st Semester  
Course  
Bio 316 Economic Botany (Bio 112) 3  
Bio 431 Animal Physiology (10 hrs. biology) 5

Bio 490 Seminar 1  
CORE [International Cultural Studies] 3  
CORE [Hist 320 U.S. History 1877-Present] 3  
CORE [PSc 120 Gov't: U.S., State, Local] 3  
18

## 2nd Semester

Course  
Bio 402 General Ecology (Bio 112, 122)  
OR  
Bio 312 Environmental Biology (consent) 4  
Bio 306 Human Physiology and Anatomy (Bio 121 or consent) 5

Electives 3  
CORE [Humanities and Fine Arts] 6  
18

\*Indicates courses which satisfy minimum requirements for admission into Optometry School. Application may be made with 90 se-



# Chemistry

mester hours. Strong preference is given to applicants who hold the bachelor's degree.

- [] Department Recommendation
- () Prerequisite

Program must satisfy Writing Intensive requirements. (See page 35)

For additional information contact:  
Dr. E. Sam Gibson (Preoptometry)  
Office: Reynolds Hall 317C  
Phone: 625-9699

Major Code 7003

## Prephysical Therapy

For Transfer to University of Missouri - Columbia

### Freshman Year

#### 1st Semester

Course	Hours
CORE [Eng 101 Comp II]	3
Math 140 Algebra & Trig	5
Bio 121 General Zoology	4
CORE [Psy 100 General Psychology]	3
Psy 120 College Orientation	1
	16

#### 2nd Semester

Course	Hours
CORE [Eng 102 Comp II]	3
Psy 311 Applied Statistics-Behavioral & Natural Science	3
CORE [PSc 120 Gov't: U.S., State, Local]	3

Chem 101 General Chemistry I (Math 140)	5
CORE [Comm 100 Oral Comm]	3
	17

### Sophomore Year

#### 1st Semester

Course	Hours
Phys 151 Elem College Physics	5
Psy 221 Psychology of Personal Adjustment	3
CORE [Humanities and Fine Arts]	3
Chem 102 General Chemistry II (Chem 101)	5
HPER 103 [Lifetime Wellness]	2
	18

#### 2nd Semester

Course	Hours
Bio 210 General Physiology (Bio 121, Chem 102)	4
CORE [Humanities and Fine Arts]	6
CORE [HPER 101 Physical Activity]	1
Phys 152 Elem College Physics II (Phys 151)	3
Soc Sci Elective	3
	17

Residents of Missouri usually apply for admission to the Physical Therapy School, University of Missouri-Columbia or other physical therapy schools within the state. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not auto-

matically admit an applicant into the physical therapy program at the University of Missouri.

- () Prerequisites
- [] Department Recommendations

An associate of arts degree may be awarded if one of the Humanities electives is a literature course.

For additional information contact:  
Mr. David Tillman  
Office: Reynolds Hall 317D  
Phone: 625-9698

Major Code 7001

## Preagriculture

Major Code 7007

### Prepharmacy

Preagriculture and prepharmacy programs at Missouri Southern are designed to match the plans of individual students.

For more information contact:  
Dr. Gerald Schlink (Preagriculture)  
Office: Reynolds Hall 313B  
Phone: 625-9764

Dr. John Messick (Prepharmacy)  
Office: Reynolds Hall 215  
Phone: 625-9617

## Chemistry

Reynolds Hall 210, 625-9376

**Faculty** Baiamonte - Head, Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

## Bachelor of Arts with a Major in Chemistry

Semester Hours

Core Curriculum Requirements (page 35) 51*	43
Foreign Language (four courses in one language)	12
Chemistry Requirements	28
Chem 101 General Chemistry I**	5

Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper Division Chemistry Electives (8 hrs.) excluding Chem 301 and Chem 302**	

OR

Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry II (5 hrs.), Upper Division Chemistry Electives (3 hrs.) excluding Chem 300**	13
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### Supporting Requirements 16

Phys 151 Elementary College Physics I**	5
Phys 152 Elementary College Physics II**	3
Math 140 Algebra and Trigonometry**	5
Comp 115 Computing I	
OR	
Comp 200 Advanced Personal Computing with Graphics	3

### Electives 29

128\*\*\*  
\*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

## Bachelor of Science with a Major in Chemistry

Semester Hours

Core Curriculum Requirements (page 35) 51*	43
Chemistry Requirements	33
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 402 Physical Chemistry II**	4
Supporting Requirements	23
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytic Geometry I**	5



# Chemistry

Math 250	Calculus with Analytic Geometry II**	5
Comp 115	Computing I	
OR		
Comp 200	Advanced Personal Computing with Graphics	3

**Electives\*\*\*** 29  
128\*\*\*\*

\*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Chemistry

### Plan A

#### One of Two Teaching Fields

Semester Hours

**Core Curriculum Requirements** (page 35) 51\* 36

**Chemistry Requirements** 27

Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I**	5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 499	Problems Laboratory	2

**Supporting Requirements** 21

Phys 151	Elementary College Physics I**	5
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Math 140	Algebra and Trigonometry**	5
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Geol 300	Environmental Geology	4
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Bio 101	General Biology	4
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Comp 115	Computing I (in place of Educ 401)	
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OR

Comp 200	Advanced Personal Computing with Graphics	3
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**Education Certification Requirements** (page 118) 39

**Second Teaching Field (some fields exceed 30 hours)** 30

153\*\*\*\*

\*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Varies with 2nd field

## Bachelor of Science in Education with a Major in Chemistry

### Plan B Single Teaching Field

Semester Hours

**Core Curriculum Requirements** (page 35) 51\* 36

**Chemistry Requirements** 35

Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 201	Analytical Chemistry I**	5
Chem 301	Organic Chemistry I**	5
Chem 302	Organic Chemistry II**	5
Chem 351	Biochemistry**	4
Chem 401	Physical Chemistry I**	4
Chem 499	Problems Laboratory	2

**Supporting Requirements** 31

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Math 150	Calculus with Analytical Geometry I**	5

Math 250	Calculus with Analytical Geometry II**	5
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Geol 300	Environmental Geology*	4
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Bio 101	General Biology	4
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Comp 115	Computing I (in place of Educ 401)	
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OR

Comp 200	Advanced Personal Computing with Graphics	3
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**Education Certification Requirements** (page 118) 39

141

\*Required chemistry, physics, mathematics, psychology and biology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

## Minor in Chemistry

Semester Hours

Chem 101	General Chemistry I*	5
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Chem 102	General Chemistry II*	5
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Chem Electives\*\* (Excluding Chem 100, Chem 298, Chem 498 and Chem 499, 6 electives must be upper division) 8

18

\*See Prerequisites

\*\*Chem 300 and Chem 301 cannot be used together to satisfy the 8-hour requirement.

## Suggested Orders of Study

Bachelor of Arts  
Major Code 1905  
Chemistry Major

### Freshman Year

1st Semester Course Hours

Chem 101	General Chemistry I (Algebra & Trig)	5
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Math 140	Algebra & Trig OR (Math 150 Calculus I)	5
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CORE	[Eng 101 Comp I]	3
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CORE	[HPER 103 Lifetime Wellness]	2
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Psy 120	College Orientation	1
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		16
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### 2nd Semester

Chem 102	General Chemistry II (Chem 101)	5
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CORE	[Eng 102 Comp II]	3
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CORE	[Hist 110 U.S. History]	3
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Electives	(Second area of concentration)	3
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Comp 115	Computing I	3
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		17
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### Sophomore Year

#### 1st Semester

Chem 301	Organic Chemistry I* (Chem 102)	
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OR

Chem 201	Analytical Chem I (Chem 102)	5
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Phys 151	Elem College Physics I (Math 140)	5
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CORE	[HPER 101 Physical Activities]	1
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Electives	(Second area of concentration)	5
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		16
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#### 2nd Semester

Chem 302	Organic Chemistry II* (Chem 301)	
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OR

Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
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Phys 152	Elem College Physics II (Phys 151)	5
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CORE	[PSc 120 Gov't: U.S., State, Local]	3
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Electives	(Second area of concentration)	5
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		18
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### Junior Year

#### 1st Semester

Chem 201	Analytical Chemistry I (Chem 102)	
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OR

Chem	[Upper Division Elective]	4-5
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Foreign Language		3
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CORE	[Comm 100 Oral Comm]	3
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CORE	[Humanities and Fine Arts]	3
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CORE	[Econ 180 Amer Econ System]	3
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		16-17
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#### 2nd Semester

Chem	[Upper Division Elective]	4
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Foreign Language		3
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CORE	[Psy 100 or Soc 110]	3
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CORE	[Bio 101 General Biology]	4
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CORE	[Humanities and Fine Arts]	3
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		17
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### Senior Year

#### 1st Semester

CORE	[Humanities and Fine Arts]	3
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Foreign Language		3
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CORE	[International Cultural Studies]	3
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Electives		6
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		15
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# Chemistry

2nd Semester	
Foreign Language	3
CORE [Hist 120 or Hist 320 U.S. History]	3
Electives	6-7
	<b>12-13</b>

Student may select either Chem 300 plus 8 hours of upper division chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division chemistry electives (excluding Chem 300).

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Vernon Baiamonte

Office: Reynolds Hall 213

Phone: 625-9541

## Bachelor of Science

Major Code 1905

### Chemistry Major

#### Freshman Year

1st Semester

Course	Hours
Chem 101 General Chemistry I (Algebra & Trig)	5
Math 150 Calculus I	5
CORE [Eng 101 Comp I]	3
Comp 115 Computing I	3
Psy 120 College Orientation	1
	<b>17</b>

#### 2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Math 250 Calculus II (Math 150)	5
CORE [Eng 102 Comp II]	3
CORE [HPER 101 Physical Activity]	1
CORE [Psy 100 or Soc 110]	3
	<b>17</b>

#### Sophomore Year

1st Semester

Chem 301 Organic Chemistry I (Chem 102)	5
Phys 250 General Physics (Math 150)	5
Elective [Math 260 Calculus III] (Math 250)	5
CORE [PSc 120 Gov't: U.S., State, Local]	3
	<b>18</b>

#### 2nd Semester

Chem 302 Organic Chemistry (Chem 301)	5
Phys 260 General Physics II (Phys 250)	5
Elective [Math 322 Differential Equations] (Math 260)	3
CORE [Econ 180 Amer Econ System]	3
	<b>16</b>

#### Junior Year

1st Semester

Chem 401 Physical Chemistry I (Math 250, Phys 260)	
OR	
Elective [Chem 422 Advanced Inorganic Chemistry] (Chem 102, Math 250)	4

Chem 201 Analytical Chemistry I (Chem 102)	5
CORE [Comm 100 Oral Comm]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Hist 110 U.S. History]	3
	<b>17</b>

#### 2nd Semester

Chem 402 Physical Chemistry II (Chem 401)	
OR	
Elective [Chem 472 Organic Qualitative Analysis] (Chem 302)	4
Elective [Chem 421 Analytical Chemistry II] (Chem 210)	5
CORE [Humanities and Fine Arts]	3
CORE [Bio 101 General Biology]	4
	<b>16</b>

#### Senior Year

1st Semester

Chem 401 Physical Chemistry I (Math 250, Phys 260)	
OR	
Elective [Chem 422 Advanced Inorganic Chemistry] (Chem 102, Math 250)	4
Elective [Chem 499 Independent Study] (Chem 499 Independent Study)	1
CORE [Humanities and Fine Arts]	3
CORE [Hist 120 or 320 U.S. History]	3
CORE [International Cultural Studies]	3
	<b>14</b>

#### 2nd Semester

Chem 402 Physical Chemistry II (Chem 401)	
OR	
Elective [Chem 472 Organic Qualitative Analysis] (Chem 302)	4
Elective [Chem 499 Independent Study]	2
Elective [Phys 372 Electronic Circuits] (Phys 260)	4
CORE [Humanities and Fine Arts]	3
	<b>13</b>

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Vernon Baiamonte

Office: Reynolds Hall 213

Phone: 625-9541

## Bachelor of Science in Education

Major Code 0841

### Chemistry Major (Plan B)

#### Single Teaching Field

#### Freshman Year

1st Semester

Course	Hours
Chem 101 General Chemistry I (Algebra & Trig)	5
Math 150 Calculus I	5
Comp 115 Computing I	3
CORE [Eng 101 Comp I]	3
Psy 120 College Orientation	1
Educ 100 Orientation to Education I	1
	<b>18</b>

#### 2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Math 250 Calculus II (Math 150)	5
CORE [Eng 102 Comp II]	3
Psy 100 General Psychology	3
CORE [HPER 103 Lifetime Wellness]	2
	<b>18</b>

#### Sophomore Year

1st Semester

Chem 301 Organic Chemistry I (Chem 102)-fall only	5
Phys 250 General Physics I (Math 150)	5
Bio 101 General Biology	
OR	
Geol 300 Environmental Geology-fall only	4
Educ 200 Orientation to Education II	1
	<b>18</b>

#### 2nd Semester

*Apply for admission to Teacher Education.*

Chem 302 Organic Chemistry II (Chem 301)-spring only	5
Phys 260 General Physics II (Phys 250)	5
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Econ 180 Amer Econ System]	3
Psy 301 Adolescent Psychology	3
Educ/Psy 302 The Exceptional Child	2
	<b>18</b>

#### Junior Year

1st Semester

Chem 401 Physical Chemistry I (Math 250, Phys 260)-fall only	
OR	
Chem 351 Biochemistry (Chem 302)-fall only	4
Chem 201 Analytical Chemistry-fall only	5
Geol 300 Environmental Geology-fall only	
OR	
Bio 101 General Biology	4
Psy 310 Educational Psychology (Psy 100)	2
CORE [Humanities and Fine Arts]	3
	<b>18</b>

#### 2nd Semester

*Pass Media Competencies*

Chem 499 Problems Laboratory	2
CORE [Humanities and Fine Arts]	3
CORE [Hist 110 U.S. History]	3
Educ 329 Pedagogical Theory, Methods & Practices	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2
Educ 422 Teaching Reading in the Sec School	2
	<b>18</b>

#### Senior Year

1st Semester

*Apply for student teaching. All course work must be completed except for Professional Semester courses.*

Chem 401 Physical Chemistry I (Math 250, Phys 260)-fall only	
OR	



# Communications

Chem 351	Biochemistry (Chem 302)-fall only	4
CORE	[Humanities and Fine Arts]	3
CORE	[International Cultural Studies]	3
CORE	[Hist 120 or 320 U.S. History]	3
CORE	[HPER 101 Physical Activities]	1
CORE	[Comm 100 Oral Comm]	3
		17

## 2nd Semester

Educ 333	Teaching Science in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec 8 Select One:	2-3
Educ 412	Individual Curriculum Development (2)	
Educ 420	Intro to Counseling (3)	
Psy 412	Measurement and Evaluation in Education and Psychology (2)	
		17-18

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Vernon Baiaomonte

Office: Reynolds Hall 213

Phone: 625-9541

## Communications

MSTV Building, 625-9580

**Faculty** Massa - Head, Bodon, Capps, Caristi, Carney, Clark, Crawford, Cummings, Delaney, McKinney, Merriam, Peterson, Stebbins, Taylor, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have two options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of

communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its consequences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain hands-on experience in television, radio and print laboratories, each outfitted with state-of-the-art equipment. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station K57DR, in addition to the available media training through PBS-affiliated KOZJ in Joplin. The department also manages KXMS, a 24 hour-a-day classical radio station operated by students and community volunteers. Perhaps the most widely recognized contribution of the communications department is *The Chart*, a student operated college newspaper published once a week. Additionally, the department publishes the *Crossroads* yearbook.

Students also have opportunities to participate in other communications sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsilon Rho and participate in its state, regional and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and off-campus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision

of a faculty member and a representative of the organization providing the intern experience.

The communications curriculum acknowledges the diversity and interconnectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive world.

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

## Bachelor of Arts with a Major in Communications

### Option I:

#### Speech Communication

	Semester Hours
<b>Core Curriculum Requirements</b> (page 35)	51
<b>Computer Literacy Requirement:</b> CIS 305 Microcomputer Applications and Management	3
<b>Foreign Language (four courses in one language)</b>	12**
<b>Communications Requirements</b>	47
Comm 101 Introduction to Human Communication	3
Comm 131 Voice and Diction	3
Comm 215 Interpersonal Communication*	3
Comm 300 Organizational Communication*	3
Comm 411 Political and Social Communication*	3
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	26
<b>Electives</b>	15
	128***

\*See Prerequisites

\*\*A proficiency level of "Intermediate Plus" is required.

\*\*\*Must include at least 40 upper division (300-400 level) hours.

## Bachelor of Arts with a Major in Communications

### Option II: Mass Communications

	Semester Hours
<b>Core Curriculum Requirements</b> (page 35)	51
<b>Computer Literacy Requirement:</b> CIS 305 Microcomputer Applications and Management	3
<b>Foreign Language (four courses in one language)</b>	12**



# Communications

<b>Communications Requirements</b>	<b>50</b>
Comm 101 Intro to Human Communication	3
Comm 111 Newswriting 3	
Comm 215 Interpersonal Communication	3
Comm 220 Practicum in Communications*	2
(Student must select two different activities.)	
Comm 310 Communication Law	3
Comm 325 Broadcast News Reporting*	3
Comm 330 Advanced Communications Practicum*	1
Comm 420 Mass Communications Theory*	3
Comm 492 Communication Issues*	3
Communication Electives	23
<b>Electives</b>	<b>15</b>
	<b>128***</b>

\*See Prerequisites

\*\*A proficiency level of "Intermediate Plus" is required.

\*\*\*Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political science, sociology, business and psychology are recommended.

## Bachelor of Science in Education with a Major in Speech Communication and Theatre

### Plan B Single Teaching Field

<b>Core Curriculum Requirements</b> (page 35) 51*	<b>48</b>
<b>Computer Literacy Requirement:</b> Educ 401 Use of Computer Software in the Classroom	2
<b>Communications Requirements</b>	<b>12</b>
Comm 101 Intro to Human Communication	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication**	3
Comm 315 Argumentation and Debate**	3
<b>Theatre Requirements</b>	<b>17</b>
Th 121, 122, 221, or 222--Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (W.I.)	
OR	

Th 332 History of Theatre	3
Th 351 Directing**	3
<b>Electives in Communications and/or Theatre</b>	<b>11***</b>
<b>Electives</b>	<b>3</b>
<b>Education Certification Requirements</b> (page 118) 40-41****	<b>38-39</b>
	<b>131-132</b>

\*Required course in psychology counts 3 hours toward core curriculum requirements, Area 3C.

\*\*See Prerequisites

\*\*\*Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

\*\*\*\*Two credit hours are satisfied by Educ 401.

## Minor in Mass Communication

	<b>Semester Hours</b>
Comm 111 Newswriting	3
Comm 310 Communication law	3
Comm 325 Broadcast News Reporting	3
Communications electives*	9
	<b>18</b>

\*Electives must be above the 100 level and must be chosen in consultation with an adviser from the communications department. A student may emphasize either the print or broadcast media.

## Minor in Speech Communication

	<b>Semester Hours</b>
Comm 100 Oral Communication*	3
Comm 214 Interpersonal Communication	3
Comm 304 Small Group Communication	3
Comm 306 Persuasion	3
Comm 307 Professional Interviewing	3
Comm 401 Nonverbal Communication	3
	<b>18</b>

This minor is designed especially for those individuals who will be entering business, industry, education or any field calling for "superior communication skills."

\*Meets Core Curriculum requirement.

## Suggested Orders of Study

**Bachelor of Arts**  
Major Code 0600  
**Communications Major**

## Mass Communications Option

### Broadcast Emphasis

#### Freshman Year

<b>1st Semester</b>	<b>Hours</b>
Course	
Foreign Language	3
CORE [Eng 101 Comp I]	3
CORE [Comm 100 Oral Comm]	3
Comm 101 Intro to Human Comm	3
Comm 111 Newswriting	3
Psy 120 College Orientation	1
	<b>16</b>

#### 2nd Semester

Foreign Language	3
CORE [Eng 102 Comp II]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Econ 180 Amer Econ System]	3
Comm 130 Intro to Broadcasting	3
Comm 131 Voice and Diction	3
	<b>17</b>

### Sophomore Year

#### 1st Semester

Foreign Language	3
CORE [HPER 101 Physical Activity]	1
CORE [Humanities and Fine Arts]	3
Comm 215 Interpersonal Comm	3
Comm 200 Radio Production	
OR	
Comm 201 TV Production	3
Comm 220 Practicum In Comm	1
Electives	3
	<b>17</b>

#### 2nd Semester

Foreign Language	3
CORE [Humanities and Fine Arts]	3
Comm 200 Radio Production	
OR	
Comm 201 TV Production	3
Comm 220 Practicum in Comm	1
CORE [Math 110 Intro to College Math]	3
Electives	3-5
	<b>16-18</b>

### Junior Year

#### 1st Semester

CIS 305 Microcomputer Applications & Management	3
CORE [Humanities and Fine Arts]	3
CORE [Biology]	4
Comm 324 Advanced TV Production	3
Comm 325 Broadcast News Reporting	3
	<b>16</b>

#### 2nd Semester

CORE [Phys 100 Fund of Phys Sci]	5
CORE [Psy 100 or Soc 110]	3
Comm 310 Comm Law	3
Comm 402 Broadcast Programming	3
Comm 301 Broadcast and Cable Management	3
	<b>17</b>

### Senior Year

#### 1st Semester

CORE [Hist 110 U.S. History]	3
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CORE	[PSc 120 Gov't., U.S., State, Local]	3	Comm	Elective	3	2nd Semester			
Comm 330	Adv Comm Practicum	2	CORE	[PSc 120 Gov't. U.S., State, Local]	3	Foreign Language			3
CORE	[Comm 305 Intercultural Comm]	3	Elective		2-3	CORE	[Eng 102 Comp II]		3
Comm	Elective (upper division)	3			17-18	CORE	[HPER 103 Lifetime Wellness]		2
Elective	(Upper division)	3				CORE	[Econ 180 Amer Econ System]		3
		17				Comm 131	Voice and Diction		3
						Comm	Elective		3
									17
2nd Semester			<b>Junior Year</b>						
CORE	[Hist 320 U.S. History]	3	1st Semester						
Comm 420	Mass Comm Theory	3	CIS 305	Microcomputer Applications & Management	3	<b>Sophomore Year</b>			
Comm 492	Comm Issues	3	CORE	[Humanities and Fine Arts]	3	1st Semester			
Electives	(upper division)	5	CORE	[Biology]	4	Foreign Language			3
		14	Comm 325	Broadcast News Reporting	3	CORE	[HPER 101 Physical Activity]		1
			Comm 330	Adv Comm Practicum	2	CORE	[Humanities and Fine Arts]		3
			Elective	[upper division]	2	Comm 215	Interpersonal Comm		3
					17	Comm	Elective		3
						Elective			3
									19
Electives should be chosen in consultation with the adviser to meet desired career goals. Courses in history, business, political science, sociology, psychology, art and theatre all may be appropriate.			2nd Semester						
			CORE	[Humanities and Fine Arts]	3				
			CORE	[Phys 100 Fund of Phys Sci]	5	2nd Semester			
			CORE	[Hist 110 U.S. History]	3	Foreign Language			3
			Comm 310	Comm Law	3	CORE	[Humanities and Fine Arts]		3
			Comm	Elective (upper division)	3	CORE	[PSc 120 Gov't: U.S., State, Local]		3
					17				3
						Comm	Elective		3
						Electives			6
									18
<b>Bachelor of Arts</b>			<b>Senior Year</b>						
Major Code 0600			1st Semester						
<b>Communications Major</b>			CORE	[Hist 320 U.S. History]	3	<b>Junior Year</b>			
			Comm	Electives [upper -division]	8	1st Semester			
			Electives	[upper division]	4	CIS 305	Microcomputer Applications & Management		3
					15	CORE	[Humanities and Fine Arts]		3
<b>Mass Communications Option</b>			2nd Semester			CORE	[Biology]		4
<b>Newspaper Emphasis</b>			Comm 420	Mass Comm Theory	3	Comm 300	Organizational Comm		3
<b>Freshman Year</b>			CORE	[Comm 305 Intercultural Comm]	3	Elective			3
1st Semester			Comm 492	Comm Issues	4				16
Course	Hours		Electives	(upper division)	3				
Foreign Language	3				13				
CORE	[Eng 101 Comp I]	3				2nd Semester			
CORE	[Comm 100 Oral Comm]	3				CORE	[Phys 100 Fund of Phys Sci]		5
Comm 101	Intro to Human Comm	3				CORE	[Psy 100 or Soc 110]		3
Comm 111	Newswriting	3				CORE	[Hist 110 U.S. History]		3
Psy 120	College Orientation	1				Comm 411	Political and Social Comm		3
		16				Comm	Elective (upper division)		3
									17
2nd Semester									
Foreign Language	3					<b>Senior Year</b>			
CORE	[Eng 102 Comp II]	3				1st Semester			
CORE	[Math 110 Intro to College Math]	3				CORE	[Hist 320 U.S. History]		3
CORE	[HPER 101 Physical Activity]	1				Comm	Electives (upper division)		9
Comm 220	Practicum in Comm	3				Elective	(upper division)		3
Elective		3							15
		16							
			<b>Bachelor of Arts</b>						
			Major Code 0600			2nd Semester			
			<b>Communications Major</b>			Comm 420	Mass Comm Theory		3
						CORE	[Comm 305 Intercultural Comm]		3
			<b>Speech Comm Option</b>			Comm	Electives (upper division)		6
			<b>Freshman Year</b>			Comm 492	Comm Issues		3
			1st Semester						15
			Course		Hours				
			Foreign Language		3				
			CORE	[Eng 101 Comp I]	3	Electives should be selected in consultation with the adviser to meet desired career goals.			
			CORE	[Comm 100 Oral Comm]	3				
			CORE	[Math 110 Intro to College Math]	3				
			Psy 120	College Orientation	1				
			Comm 101	Intro to Human Comm	3				
			Elective		3				
					16				
2nd Semester									
Foreign Language	3								
CORE	[Humanities and Fine Arts]	3							
CORE	[Psy 100 or Soc 110]	3							



# English

## Bachelor of Science in Education

Major Code 0844

### Speech-Theatre Major (Plan B)

#### Single Teaching Field

##### Freshman Year

###### 1st Semester Course Hours

Comm 101	Intro to Human Comm	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110 Intro to College Math]	3
CORE	[Biology]	4
Psy 120	College Orientation	1
Educ 100	Orientation to Education	1
		18

##### 2nd Semester

Psy 100	General Psychology	3
Comm	Electives	6
Th 142	Theatre Technology	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
		18

#### Sophomore Year

##### 1st Semester

Educ 302	The Exceptional Child	2
Comm 215	Interpersonal Comm	3
Psy 301	Adolescent Psychology	3
Th 241	Acting I	3
CORE	[Humanities and Fine Arts]	3
CORE	[HPER 103 Lifetime Wellness]	2
Educ 200	Orientation to Education II	1
		17

##### 2nd Semester

###### Apply for admission to teacher education.

Psy 310	Educational Psychology	2
Comm	Elective	3
Th 212	Oral Interpretation	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3
CORE	[HPER 101 Physical Activity]	1
		15

#### Junior Year

##### 1st Semester

###### Pass Media Competencies

Educ 329	Pedagogical Theory, Methods & Practices	4
Educ 321	Microteaching Secondary	2
Educ 390	Intro to Instructional Media	2
Comm 304	Small Group Comm	3
Comm 315	Argumentation and Debate	3
Th 331	History of the Theatre	3
Educ 423	Classroom Management	2
		19

##### 2nd Semester

CORE	[Comm 305 Intercultural Comm]	3
Comm	Elective	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		14
CORE	[Econ 180 Amer Econ System]	3
Educ 422	Reading in Secondary Schools	2
		19

#### Senior Year

##### 1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 351	Directing I	3
CORE	[Hist 320 U.S. History]	3
Electives		9
		15

##### 2nd Semester

Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 344	Teaching Speech & Theatre in Sec. Schools	2
Educ 401	Use of Computer Software in Classroom	2
Educ 462	Student Teaching	8
Educ 412 or Educ 420 or Educ 423 or Psy 412		2
		18

##### [] Department Recommendation

For additional information contact:

Mr. Richard W. Massa

Office: MSTV

Phone: 625-9372

## English

Hearnes Hall 300, 625-9377

**Faculty** Lambert - Head, Ackiss, Bauer, Brown, Couch, DeArmond, Denniston, Fitzgerald, Greenlee, Hall, Harder, Hoffman, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent major for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity and, they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another

field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like "The Winged Lion," and in projects like the annual Colloquium and the English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page (35) under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 sequentially in their freshman year.

## Bachelor of Arts with a Major in English

	Semester Hours
<b>Core Curriculum Requirements</b>	
(page 35) 51*	45
<b>Foreign Language (four courses in one language)</b>	12
<b>English Requirements</b>	42
Eng 301 Modern Grammar	
OR	
Eng 400 History of the English Language	3
One course from Eng 216, 310, 313 and 315	3
English Electives**	36
<b>Electives</b>	29
	128***

\*Two of the English courses listed under Area 2, sections B and C on page 35 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36



# English

hours of English electives required for the major.

\*\*Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English department.

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in English

### Plan A

#### One of Two Teaching Fields

	Semester Hours
<b>Core Curriculum Requirements</b> (page 35) 51*	42
<b>English Requirements</b>	30
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
One course from Eng 216, 310, 313 and 315	3
English Electives**	15
<b>Education Certification Requirements</b> (page 118)	40
<b>Second Teaching Field (some fields exceed 30 hours)</b>	30
	142

Six hours of literature from Area 2, sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

\*\*Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

## Bachelor of Science in Education with a Major in English

### Plan B Single Teaching Field

	Semester Hours
<b>Core Curriculum Requirements</b> (page 35) 51*	42
<b>English Requirements</b>	42
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3

One course from Eng 216, 310, 313 and 315	3
English Electives**	27
<b>Education Certification Requirements</b> (page 118)	40
<b>Electives</b>	4
	128

\*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

\*\*Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

## Minor in English

Semester	Hours
Eng 216, 310 or 315	3
Eng courses at the 300-400 level	9
Eng Electives (beyond freshman composition)	9
	21*

\*Should be chosen in consultation with an adviser in the English department.

## Suggested Orders of Study

### Bachelor of Arts Major Code 1501 English Major

#### Freshman Year

1st Semester	Course	Hours
	CORE [Eng 101 Comp I]	3
	CORE [Hist 110 or 120 U.S. History]	3
	Foreign Language	3
	CORE [Math 110 or equivalent]	3
	CORE [HPER 101 Physical Activity]	1
	Psy 120 College Orientation	1
		14

#### 2nd Semester

	CORE [Eng 102 Comp II]	3
	CORE [PSc 120 Gov't: U.S., State, Local]	3
	Foreign Language	3
	Eng Elective	3
	CORE [Hist 110, 120 or 320 U.S. History]	3
		15

#### Sophomore Year

1st Semester	Course	Hours
	Eng Elective	3
	CORE [Comm 100 Oral Comm]	3
	CORE [Bio 101 or 110]	4
	CORE [HPER 103 Lifetime Wellness]	2
	Eng 310 Professional Writing or English elective	3
		15

#### 2nd Semester

Eng Elective	3
Eng Elective	3
CORE [Phys 100 Physical Science]	5
CORE [Psy 100 or Soc 110]	3
Eng 216, 310, 313 and 315 or English elective	3
	17

#### Junior Year

##### 1st Semester

Eng Elective	3
Eng 301 or Eng Elective	3
CORE [Econ 180 Amer Econ System]	3
Electives [Minor]	9
	18

##### 2nd Semester

Eng 400 or Eng Elective	3
Eng Elective	3
CORE [Art 110, Mus 110 or Th 110]	3
Electives [Minor]	6
	15

#### Senior Year

##### 1st Semester

Eng Elective	6
Electives [Minor]	6
CORE [International Cultural Studies]	3
	15

##### 2nd Semester

Eng Electives	6
Electives [Minor]	9
	15

#### [ ] Department Recommendation

Students must choose one course from 216, 310, 313 or 315. Eng 310 is offered fall semesters only; 216, 313 and 315 spring semesters only. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 35).

For additional information contact:

Dr. Joseph Lambert  
Office: Hearnes Hall 314  
Phone: 625-9535

### Bachelor of Science in Education Major Code 0842

#### English Major (Plan B) Single Teaching Field

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

#### Freshman Year

##### 1st Semester

Course	Hours
CORE [Eng 101 Comp I]	3
Psy 100 General Psychology	3
CORE [Hist 110 or 120 U.S. History]	3
CORE [Math 110 or equivalent]	3
CORE [HPER 101 Physical Activity]	1
Psy 120 College Orientation	1
Educ 100 Orientation to Education I	1
	15



# Foreign Languages

## 2nd Semester

CORE [Eng 102 Comp II] 3  
Eng Elective 3  
CORE [PSc 120 Gov't: U.S., State, Local] 3

CORE [Bio 101 or 110 Biology] 4  
CORE [Econ 180 Amer Econ System] 3  
Educ 200 Orientation to Education II 1

## Sophomore Year

### 1st Semester

Eng Elective 3  
Eng Elective 3  
CORE [HPER 103 Lifetime Wellness] 2  
CORE [Phys 100 Physical Science] 5  
CORE [Art 110, Mus 110 or Th 110] 3  
Psy 301 Adolescent Psychology 3

### 2nd Semester

#### Apply for Admission to Teacher Educations

Eng Electives 6  
Psy 302 Exceptional Child 2  
Psy 310 Educational Psychology 3  
CORE [Comm 100 Oral Comm] 3  
CORE [Hist 110, 120 or 320] 3

## Junior Year

### 1st Semester

Eng 301 Modern Grammar 3  
Eng 310 or Eng Elective 3  
Eng 319 Composition for Teachers 3  
Educ 329 Pedagogical Theory, Methods & Practices 4  
Educ 321 Microteaching 2  
Educ 423 Classroom Management 2

### 2nd Semester

Eng 400 History of English Language 3  
Eng 216 or 315 or Eng Elective 3  
Eng 330 Literature for Adolescents 3  
Educ 422 Teaching Reading 2  
Eng Electives 6

## Senior Year

Apply for admission to student teaching. All course work must be completed except for Professional Semester courses.

### 1st Semester

Eng Electives 9  
Elective 3  
CORE [International Cultural Studies] 3

### 2nd Semester

Professional Semester, including Methods in Major 16

[] Department Recommendation

The department recommends two courses in American literature and two courses in English/world literature. Six hours of literature selected

from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 35).

For additional information contact:

Dr. Joseph Lambert  
Office: Hearnes Hall 314  
Phone: 625-9535

## Foreign Languages and Literatures

MSTV Building, 625-9580

Faculty Massa - Head, Bodon, Carney, Crawford, Peterson

Once it was simply said that fluency in a second language would be a valuable social and business asset. Now, however, a second language is deemed a necessity in solving many of the world's problems of this and the next century. The problems, we have learned, have their beginnings in understanding one another's words, ideas, cultures and beliefs. For business, foreign language skills have become an advantage, as *The Wall Street Journal* in a 1990 editorial said: "American managers with language skills open more doors." And *The New York Times* wrote: "American ignorance of other tongues has been hurting American business executives...."

In a college with an international mission, it becomes the task of the department of communications and its faculty in foreign languages to help students achieve communications skills in a non-native language.

To that end, the department has structured its foreign language offerings on a proficiency-based system of instruction so that students who enroll in a course will know at what level of general language proficiency they may begin and at what level they will end. Language study becomes, therefore an extremely practical tool.

By proceeding through a sequence of courses at the 100-and 200-level, students may prepare themselves for study at the Advanced level of language usage and then by further courses, combined with foreign study, achieve an Advanced Plus ability in language. This Advanced Plus proficiency will permit a student to perform successfully an internship abroad and during such an internship, even greater language proficiency may be developed.

A major in Spanish permits an in-depth study of the cultural heritages of various

Hispanic civilizations. Extensive study in any of the languages offered, however, when combined with majors in business, political science or communications, as some examples, is especially valuable for students of the 1990s. Whether the students' interests are in the European community, the booming tourism profession, Pacific Rim trade or international politics, they will wish to develop a high level of proficiency in a foreign language.

For all students, the department provides opportunities for study abroad. The department also offers advice concerning the role of language study in career planning. Whether enrolled or not in an international program, students may wish to examine the possibilities offered by foreign language study in enriching their careers.

Students who have had no previous foreign language training are advised to enroll in a 101 course. Students with one year of high school foreign language classes also should enroll in a 101 course. Students who had two years of a language in high school may enroll in a 102 course of the same language, if they received at least a "B" in the high school language. Students who had three or four years of high school foreign language study may enroll in a 203 course in the same language, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after an assessment is made of their skills.

Questions concerning the foreign language program should be addressed to the department of communications.

## Bachelor of Arts with a Major in Spanish

Semester Hours

Core Curriculum Requirements (page 35) 51*	48
Computer Literacy Requirement:	
CIS 305 Microcomputer Applications and Management	3
Spanish Requirements**	40
Span 101 Beginning Spanish I	3
Span 102 Beginning Spanish II	3
Span 203 Intermediate Spanish I	3
Span 204 Intermediate Spanish II	3
Span 301 Readings and Conversation	3
Span 302 Readings in Hispanic Literature and Culture	3



# Foreign Languages

Span 303	Spanish Syntax I	2
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II and Composition	3
Span 321	Peninsular Literature (to Calderon)	3
Span 322	Peninsular Literature (to Present)	3
Span 333	Survey of Spanish-American Literature I	3
Span 334	Survey of Spanish-American Literature II	3
Span 440	The Novelistic Tradition	3
<b>Supporting Requirements</b>		<b>6</b>
Comm 305	Intercultural Communications	3
Geog 412	Geography and Culture of Latin America	3
<b>Electives</b>		<b>31</b>
		<b>128</b>

\*Required course in Intercultural Communication satisfies the requirement for the International Studies category of the Core Curriculum.

\*\*A major in Spanish must demonstrate, before the final semester, a proficiency in Spanish at the "Advanced Plus" level.

## Bachelor of Science in Education with a Major in Spanish

### Plan A

#### One of Two Teaching Fields

		Semester Hours
<b>Core Curriculum Requirements</b> (page 35) 51*		<b>48</b>
<b>Computer Literacy Requirement:</b> Educ 401 Use of Computer Software in the Classroom		<b>2</b>
<b>Spanish Requirements**</b>		<b>32</b>
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 301	Readings and Conversation	3
Span 302	Readings in Hispanic Literature and Culture	3
Span 303	Spanish Syntax I	3
OR		
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II and Composition	3
Span 321	Peninsular Literature (to Calderon)	3
OR		
Span 322	Peninsular Literature (to Present)	3

Span 333	Survey of Spanish-American Literature I	
OR		
Span 334	Survey of Spanish-American Literature II	3
Span 440	The Novelistic Tradition	3
<b>Education Certification Requirements</b> (page 118)		<b>38-39</b>
<b>Second Teaching Field (some fields exceed 30 hours)</b>		<b>30</b>
		<b>150-151***</b>
*Required course in psychology satisfies the requirements for three hours of the Core Curriculum.		
**A candidate for a degree under Plan A must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.		

\*A minimum of 128 hours required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 128.

## Bachelor of Science in Education with a Major in Spanish

### Plan B Single Teaching Field

		Semester Hours
<b>Core Curriculum Requirements</b> (page 35) 51*		<b>45</b>
<b>Computer Literacy Requirement:</b> Educ 401 Use of Computer Software in the Classroom		<b>2</b>
<b>Spanish Requirements**</b>		<b>32</b>
Span 101	Beginning Spanish I	3
Span 102	Beginning Spanish II	3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 301	Readings and Conversation	3
Span 302	Readings in Hispanic Literature and Culture	3
Span 303	Spanish Syntax I	3
OR		
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II and Composition	3
Span 321	Peninsular Literature (to Calderon)	3
OR		
Span 322	Peninsular Literature (to Present)	3
Span 333	Survey of Spanish-American Literature I	3
OR		
Span 334	Survey of Spanish-American Literature II	3

Span 440	The Novelistic Tradition	3
<b>Supporting Requirements</b>		<b>6</b>
Comm 305	Intercultural Communication	3
Geog 412	Geography and Culture of Latin America	3
<b>Education Certification Requirements</b> (page 118)		<b>38</b>
<b>Electives</b>		<b>5</b>
		<b>128</b>

\*Required course in psychology and intercultural communication satisfy requirements for six hours of the Core Curriculum.

\*\*A candidate for a degree under Plan B must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

## Minor in Spanish

A minor in Spanish requires a student to attain a proficiency level of "Advanced Plus" and have 15 hours of approved classes in Hispanic literature at the upper-division level.

## Minor in French

A minor in French requires 18 hours of courses in French of which six must be upper division.

## Minor in German

A minor in German requires 18 hours of courses in German of which six must be upper division.

## Suggested Orders of Study

### Bachelor of Arts Major Code 1105 Spanish Major

#### Freshman Year

1st Semester		Hours
Course		
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to College Math]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Humanities and Fine Arts]	3
Psy 120	College Orientation	1
		<b>18</b>

#### 2nd Semester

Span 102	Beginning Spanish II	3
CORE	[Eng 102 Comp II]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[HPER 101 Physical Activity]	1
		<b>15</b>



# Geography

## Sophomore Year

### 1st Semester

Span 203	Intermediate Spanish I	3
CORE	[Humanities and Fine Arts]	3
CORE	[Bio 101 Biology]	4
CORE	[Hist 110 U.S. History]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3

### 2nd Semester

Span 204	Intermediate Spanish II	3
CORE	[Psy 100 or Soc 110]	3
CIS 305	Microcomputer Applications and Management	3
CORE	[Hist 320 U.S. History]	3
Elective*		3-6

## Junior Year

### 1st Semester

Span 301	Readings and Conversation	3
CORE	[Econ 180 Amer Econ System]	3
Electives*		10

### 2nd Semester

Span 302	Readings in Hispanic Literature & Culture	3
Span 320	Spanish Syntax II & Composition	3
Span 322	Peninsular Literature	3
Comm 305	International Comm	3
Geog 412	Geography and Culture of Latin America	3

## Senior Year

### 1st Semester

Span 303	Spanish Syntax I	2
Span 321	Peninsular Literature	3
Span 333	Survey of Spanish-American Literature I	3
Span 304	Spanish Phonology	2
Electives*		5

### 2nd Semester

Span 334	Survey of Spanish-American Literature II	3
Span 440	The Novelistic Tradition	3
Electives*		10-12

\*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[] Department Recommendation

For additional information contact:

Mr. Richard W. Massa

Office: MSTV

Phone: 625-9372

## Bachelor of Science in Education

Major Code 0847

Spanish Major (Plan B)

Single Teaching Field

## Freshman Year

### 1st Semester

Course		Hours
Span 101	Beginning Spanish I	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Math 110 Intro to College Math]	3
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
Educ 100	Orientation to Educ I	1

### 2nd Semester

Span 102	Beginning Spanish II	3
Psy 100	General Psychology	3
CORE	[Eng 102 Comp II]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 110 U.S. History]	3

## Sophomore Year

### 1st Semester

Span 203	Intermediate Spanish I	3
Educ 200	Orientation to Educ II	1
Educ 302	The Exceptional Child	2
CORE	[Humanities and Fine Arts]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Psy 301	Adolescent Psychology	3

### 2nd Semester

<i>Apply for admission to teacher education</i>		
Span 204	Intermediate Spanish II	3
Psy 310	Educational Psychology	2
CORE	[Humanities and Fine Arts]	3
CORE	[Biology]	4
CORE	[PSc 120 Gov't: U.S., State, Local]	3

## Junior Year

### Pass Media Competencies

#### 1st Semester

Span 301	Readings and Conversation	3
Comm 305	Intercultural Communication	3
Educ 329	Pedagogical Theory, Methods & Practices	4
Educ 321	Microteaching Secondary	2
Educ 423	Classroom Management	2
Elective*		3

#### 2nd Semester

Span 302	Readings in Hispanic Literature and Culture	3
Span 320	Spanish Syntax II and Composition	3
Span 322	Peninsular Literature	3
Geog 412	Geography and Culture of Latin America	3
Span 440	The Novelistic Tradition	3
Educ 422	Reading in Secondary Schools	2

## Senior Year

*Apply for student teaching. All course work must be completed except for Professional Semester courses.*

### 1st Semester

Span 303	Spanish Syntax I	2
Span 333	Survey of Spanish-American Literature I	3
CORE	[Hist 320 U.S. History]	3
CORE	[Econ 180 Amer Econ System]	3
Electives*		6

### 2nd Semester

Educ 402	Foundations of Educ	2
Educ 432	Critical Issue in Educ	2
Educ 345	Teaching Foreign Language in Sec. Schools	2
Educ 401	Use of Computer Software in Classroom	2
Educ 462	Student Teaching	8
Educ 412 or Educ 420 or Educ 423 or Psy 412		2

\*Electives should be chosen in consultation with the student's major adviser and with the advice of a faculty member in a minor field of study, if one is chosen.

[] Department Recommendation

For additional information contact:

Mr. Richard W. Massa

Office: MSTV

Phone: 625-9372

# Geography

Mansion 115, 625-9564

**Faculty** Tate - Head, Sale

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

Though a major is not now offered, sufficient hours are available to meet social studies teacher certification standards. Students may, with the supervision of a social science adviser, take a geography minor consisting of 18 semester hours.

## Minor in Geography

Semester Hours

**Geog 211 Regions and Nations** 3  
**Choose 6 hours from:** 6

Geog 311	Political Geography	3
Geog 322	Economic Geography	3
Geog 412	Geography and Culture of Latin America	3
Geog 422	Geography of the U.S. and Canada	3
Geog 498	Seminar in Geography	3

**Choose 9 hours from:** 9

Draf 230	Survey and Mapping	3
CJAD 210	Basic Photography	3
Comp 115	Computing I	3
Geol 300	Earth Environments	3



# Geology/History

Geol 320	Historical Geology	3
PSc 322	International Law	3
PSc 332	Comparative Government:	
	Latin America	3
Soc 155	Physical Anthropology &	
	Archaeology	3
Soc 361	The Study of Populations*	3
Soc 402	The Community*	3

18

\*See Prerequisites

## Geology

Reynolds Hall 210, 625-9376

**Faculty** Baiamonte - Head, Knapp

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

## History

Mansion 115, 625-9564

**Faculty** Tate - Head, Belvins, Holman, Laas, Markman, Sale, Smith, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social science and law. A bachelor of science in education with a major in social studies - history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 76 for a social science minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements.

History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requirements.

History 130 or 140 is a prerequisite for all upper division European or East Asian history courses.

## Bachelor of Arts with a Major in History

Semester Hours

**Core Curriculum Requirements**  
(page 35) 51\* 42

**Computer Literacy Requirement - determined by the social science department** 2-3

**Foreign Language (four courses in one language)** 12

**History Requirements** 33

Hist 110 U.S. History 1492-1877 3

Hist 120 U.S. History 1877-Present

OR

Hist 320 U.S. History 1877-Present 3

Hist 130 Western Civilization to 1660

3

Hist 140 Western Civilization Since

1660 3

Hist 497 Seminar in Historical

Research\*\*

OR

Hist 499 Independent Study

(Internship)\*\* 3

Hist Upper Division U.S.\*\* 6

Hist Upper Division European

or East Asian\*\* 6

Hist Upper Division Electives\*\*

6

**Electives** 38-39

128\*\*\*

\*Required History courses satisfy major requirements and 9 hours of Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300-400 level) hours.

## Bachelor of Science in Education with a Major in Social Studies

### History Emphasis

#### Plan B Single Teaching Field

Semester Hours

**Core Curriculum Requirements**

(page 35) 51\* 33

**History Requirements** 33

Hist 110 U.S. History 1492-1877 3

Hist 120 U.S. History 1877-Present

OR

Hist 320 U.S. History 1877-Present 3

Hist 130 Western Civilization to 1660

3

Hist 140 Western Civilization Since

1660 3

Hist 497 Seminar in Historical

Research\*\*

OR

Hist 499 Independent Study

(Internship)\*\* 3

Hist Upper Division U.S.\*\* 6

Hist Upper Division European 3

Hist Upper Division East Asian\*\* 3

Hist Upper Division Electives\*\* 6

**Supporting Requirements** 21

PSc 120 Gov't: U.S., State, Local 3

PSc Upper Division Elective 3

Soc 110 Intro to Sociology 3

Soc Upper Division Elective 3

Geog 211 Regions and Nations 3

Geog Upper Division Elective 3

Econ 180 Amer Econ System 3

**Education Certification Requirements**

(see page 118) 40-41

**Elective** 1

128

\*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

**Minor in History**

Semester Hours

Hist 110 U.S. History 1492-1877 3

Hist 120 U.S. History 1877-Present

OR

Hist 320 U.S. History 1877-Present 3

Hist 130 Western Civilization to 1660

OR

Hist 140 Western Civilization Since

1660 3

Hist Upper Division U.S.

Elective\* 3

Hist OR Upper Division European\*

Hist Upper Division East Asian

Elective\* 6

18

\*Must be chosen with approval of history adviser.

**Minor in Social Studies For Secondary Education**

(page 76)

**Suggested Order of Study**

**Bachelor of Arts**

Major Code 2205

**History Major**

**Freshman Year**

1st Semester

Course

Hours

Hist 110 U.S. History 1492-1877\* 3

CORE [Eng 101 Comp I] 3

CORE [Math 110 Intro to Col Math] 3

CORE [HPER 103 Lifetime Wellness] 2

CORE [HPER 101 Physical Activity] 1

CORE [Humanities and Fine Arts] 3



# Mathematics

Psy 120	College Orientation	1	Hist 497	Seminar in Historical Research**	Educ 329	Pedagogical Theory, Methods & Practices	4
		16	OR		Educ 321	Microteaching	2
2nd Semester			Hist 499	Independent Study**	Educ 401	Use of Comp Software in Class	2
Course			Electives	[A minor is suggested]	Educ 423	Classroom Management	2
Hist 120	U.S. History 1877-Present*						16
OR							
Hist 320	U.S. History 1877-Present*	3					
CORE	[Eng 102 Comp II]	3					
CORE	[PSc 120 Gov't: U.S., State, Local]	3					
CORE	[Bio 101 General Biology]	4					
CORE	[Comm 100 Oral Comm]	3					
		16					
<b>Sophomore Year</b>							
1st Semester							
Course							
Hist 130	Western Civilization to 1660	3					
Foreign Language		3					
CORE	[English Lit]	3					
Elective		3					
CORE	[Econ 180 Amer Econ System]	3					
		15					
2nd Semester							
Course							
Hist 140	Western Civilization Since 1660	3					
Foreign Language		3					
CORE	[Soc 110 Intro to Sociology]	3					
CORE	[Phys 100 Fund of Phys Sci]	5					
CORE	[Computer Literacy course selected with adviser's approval]	3					
		17					
<b>Junior Year</b>							
1st Semester							
Course							
Hist	Upper Division U.S. (not 320)	3					
CORE	[Humanities and Fine Arts]	3					
CORE	[International Cultural Studies]	3					
Foreign Language		3					
Elective	[A minor is suggested]	3					
		15					
2nd Semester							
Course							
Hist	Upper Division U.S. (not 320)	3					
Foreign Language		3					
Electives	[A minor is suggested]	9					
		15					
<b>Senior Year</b>							
1st Semester							
Course							
Hist	Upper Division European or East Asian	3					
Hist	Upper Division Elective (not 320)	3					
Electives	[A minor is suggested]	9					
		15					
2nd Semester							
Course							
Hist	Upper Division European or East Asian	3					
Hist	Upper Division Elective (not 320)	3					
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# Mathematics

choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements.

## Bachelor of Science with a Major in Mathematics

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>43</b>
<b>Mathematics Requirements</b>	<b>39</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 342 Abstract Algebra**	3
OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	18

**Supporting Requirements** 18  
Physics and/or chemistry electives—must include at least one course from each (excluding Chem 100, Phys 100,

Phys 120, Phys 140, Phys 180, Phys 300)	15
Comp 110 (or above)	3
<b>Electives</b>	<b>28</b>
	<b>128****</b>

\*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

## Bachelor of Science in Education with a Major in Mathematics

### Plan A One of Two Teaching Fields

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>45</b>
<b>Mathematics Requirements</b>	<b>30</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra**	3
OR	
Math 351 Linear Algebra**	3
Math 361 Introduction to Probability	3
Math Elective***	3
<b>Supporting Requirements</b>	<b>3</b>
Comp 110 (or above, substitutes for Educ 401)	3
<b>Education Certification Requirements (page 118)</b>	<b>39-40</b>
<b>Second teaching field (some fields exceed 30 hours)</b>	<b>30</b>
	<b>147-148****</b>

\*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371,

431, 452 to satisfy computer literacy requirement.

\*\*\*\*Varies with 2nd field

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

## Bachelor of Science in Education with a Major in Mathematics

### Plan B Single Teaching Field

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>40</b>
<b>Mathematics Requirements</b>	<b>33</b>
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry 3	
Math 342 Abstract Algebra**	
OR	
Math 351 Linear Algebra**	3
Math 361 Introduction to Probability	3
Math Electives numbered above 320***	6
<b>Supporting Requirements</b>	<b>13</b>
Physics and/or Chemistry electives - must include courses from both (excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180)	10
Comp 110 (or above, substitutes for Educ 401)	3
<b>Education Certification Requirements (page 118)</b>	<b>39-40</b>
<b>Electives</b>	<b>2-3</b>
	<b>128</b>

\*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.



# Mathematics/Music

## Minor in Mathematics

	Semester Hours
Math 150	
Calculus with Analytic Geometry I	5
Math 250	
Calculus with Analytic Geometry II	5
Math	
electives numbered above 250*	11
	21

\*At least 6 hours upper division.

## Suggested Orders of Study

### Bachelor of Science

Major Code 1701  
Mathematics

#### Freshman Year

##### 1st Semester

Course	Hours
Math 150 Calculus I	5
Chem 101 General Chemistry I	5
CORE [Eng 101 Comp I]	3
CORE [Area 2 Elective]	3
Psy 120 College Orientation	1
	17

##### 2nd Semester

Math 250 Calculus II	5
CORE [Eng 102 Comp II]	3
Phys 250 General Physics	4
Comp 110 Pascal (or higher)	3
CORE [Comm 100 Oral Comm]	3
	18

#### Sophomore Year

##### 1st Semester

Math 260 Calculus III	5
CORE [Econ 201 Prin of Economics]	3
CORE [Hist 110 U.S. History]	3
CORE [HPER 103 Lifetime Wellness]	2
Phys or Chemistry Electives*	3-5
	16-18

##### 2nd Semester

Math 300 Fund of Math Thought	3
Math Elective [322]	3
CORE [Psy 100 or Soc 110]	3
CORE [Area 2 Elective]	3
CORE [Hist 120 or Hist 320 U.S. History]	3
	15

#### Junior Year

##### 1st Semester

Math Electives**	6
CORE [Area 2 Elective]	3
Chem or Physics Electives*	3-5
CORE [PSc 120 Gov't: U.S., State, Local]	3
	15-17

##### 2nd Semester

Math Electives**	6
CORE [Bio 101 General Biology]	4

CORE [HPER 101 Physical Activity]	1
CORE [Area 5 Elective]	3
Elective	3
	17

#### Senior Year

##### 1st Semester

Math Electives**	6
Electives	9
	15

##### 2nd Semester

Math Electives**	6
Electives	9
	15

\*See requirements and exclusions on page 51.  
\*\*Electives must be approved by math adviser.  
[] Department Recommendations  
\*Must be taken at night the semester prior to Student Teaching

For additional information contact:

Dr. J. Larry Martin  
Office: Reynolds Hall 212  
Phone: 625-9540

#### Bachelor of Science in Education

Major Code 0833

#### Mathematics Major (Plan B) Single Teaching Field

##### Freshman Year

##### 1st Semester

Course	Hours
Math 150 Calculus I	5
CORE [Eng 101 Comp I]	3
Psy 100 General Psychology	3
CORE [HPER 103 Lifetime Wellness]	2
Educ 100 Orientation to Education I	1
Psy 120 College Orientation	1
	15

##### 2nd Semester

Math 250 Calculus II	5
Chem 101*	5
CORE [Eng 102 Comp II]	3
Comp 110 Pascal (or higher)	3
CORE [HPER 101 Physical Activity]	1
	17

#### Sophomore Year

##### 1st Semester

Math 260 Calculus III	5
Phys 250*	5
CORE [Comm 100 Oral Comm]	3
CORE [Area 2 Elective]	3
Educ 200 Orientation to Education II	1
	17

##### 2nd Semester

<i>Apply for admission to Teacher Education</i>	
Math 300 Fundamentals of Math Thought	3
CORE [Bio 101 General Biology]	4
CORE [Area 2 Elective]	3
Psy 301 Adolescent Psychology	3
CORE [Hist 110 U.S. History]	3
	16

#### Junior Year

##### Pass Media Competencies

##### 1st Semester

Math 332	
OR	
Math 361	3
Math Elective**	3
Educ 329 Pedagogical Theory, Methods & Practices	4
Educ 321 Micro Teaching	2
Educ 423 Classroom Management	2
CORE [Hist 120 or Hist 320 U.S. History]	3
	16

##### 2nd Semester

Math Electives**	6
CORE [PSc 120 Gov't: U.S., State, Local]	3
Psy 310 Educational Psychology	2
Psy 302 Exceptional Child	2
CORE [Area 2 Elective]	3
	16

#### Senior Year

##### 1st Semester

*Apply for Student Teaching. All course work must be completed except Professional Semester.*

Math 332	
OR	
Math 361	3
Math Elective**	3
CORE [Area 5 Elective]	3
CORE [Econ 180 Amer Econ System]	3
Educ 422 Reading in the Sec School	2
Elective	3
	17

##### 2nd Semester

Educ 339 Teaching Math in Sec Schools	3
Educ 402 Foundations of Education	2
Educ 432 Critical Issues 2 Required Elective [Educ 412, 420, or Psy 412]	8
2Educ 462 Student Teaching	17

\*See requirements and exclusions on page 51.

\*\*Electives must be approved by math adviser.  
[] Department Recommendations

For additional information contact:

Dr. J. Larry Martin  
Office: Reynolds Hall 212  
Phone: 625-9540

## Music

Music Building 214, 625-9318

**Faculty** Havely - Head, Carnine, Chung, Clark, Elliott, Harrell, Harris, Meeks, Thelen

The department of music offers a bachelor of arts degree and a bachelor of science in education degree with a major in music. Each degree prepares graduates for performance, studio teaching and/or continued



# Music

study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

## Bachelor of Arts with a Major in Music

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Computer Literacy Requirement - determined by the music department</b>	<b>2-3</b>
<b>Foreign Language (four courses in one language)</b>	<b>12</b>
<b>Music Requirements</b>	<b>72</b>
Mus 109 Sight Singing & Ear Training*	2
Mus 210 Sight Singing & Ear Training*	2
Mus 111 Music Theory	3
Mus 112 Music Theory*	3
Mus 182 Conducting Techniques*	2
Mus 211 Music Theory*	3
Mus 212 Music Theory*	3
Mus 240 Recital Attendance (8 semesters)	0
Mus 311 History of Music*	3
Mus 312 History of Music*	3
Mus 420 Form and Analysis*	3
Mus 431 Orchestration*	3
Mus 444 Advanced Conducting Techniques*	2
Mus 450 Senior Recital*	0
Large Music Ensemble (8 semesters)***	16
Private study in one area (8 semesters)	16
Applied piano elective (Except keyboard majors)	8
(Keyboard majors must take 8 semester hours of music electives in lieu of the applied piano elective.)	

137-138\*\*

\*See Prerequisites

\*\*Must include at least 40 upper division (300 - 400 level) hours.

\*\*\*Must be taken the last eight semesters of residency.

## Bachelor of Science in Education with a Major in Music

**Plan B Single Teaching Field Option 1 Instrumental Emphasis**

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>48</b>
<b>Music Requirements</b>	<b>74</b>
Mus 109 Sight Singing & Ear Training**	2
Mus 210 Sight Singing & Ear Training**	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques**	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 231 String Techniques	1
Mus 232 Brass Techniques	1
Mus 233 Percussion Techniques (Not open to percussion majors. Percussion majors must substitute a second semester of Mus 232 or 234.)	1
Mus 234 Woodwind Techniques	1
Mus 240 Recital Attendance (7 semesters)	0
Mus 311 History of Music**	3
Mus 312 History of Music**	3
Mus 333 Music for the Elem Grades***	2
Mus 411 Marching Band Methods**	2
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School***	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital**	0
Mus Vocal/Choral Elective	2
Mus Piano/Wind Instrument	2

(a) Instrumental major, other than piano: two semester hours of piano study or the equivalent (Class piano may be included).

(b) Piano major: Two semester hours of private study on a wind instrument or the equivalent. The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private study as a major in one area (7 semesters) 14  
Large Ensemble (7 semesters)\*\*\*\* 14  
Brass, woodwind or percussion major: the seven semesters of large ensemble must be in band.

String Major: the seven semesters of large ensemble must be in orchestra.

**Education Certification Requirements (page 118)**

40-41  
162-163

\*The required course in psychology satis-

fies both certification requirements and 3 hours of Core Curriculum, Area 3C.

\*\*See Prerequisites

\*\*\*Must be completed prior to the Professional Semester of supervised teaching.

\*\*\*\*Must be taken the seven semesters immediately prior to the student teaching semester.

## Bachelor of Science in Education with a Major in Music

**Plan B Single Teaching Field Option II Vocal Emphasis**

	Semester Hours
<b>Core Curriculum Requirements (page 35) 51*</b>	<b>48</b>
<b>Music Requirements</b>	<b>74</b>
Mus 109 Sight Singing & Ear Training**	2
Mus 210 Sight Singing & Ear Training	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques**	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 240 Recital Attendance (7 semesters)	0
Mus 309 Choral Techniques	2
Mus 311 History of Music**	3
Mus 312 History of Music**	3
Mus 333 Music for the Elem Grades***	2
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School***	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital**	0
Mus Instrumental Elective	2
Mus Piano/Voice	6

(a) Piano Major: Six semester hours of private voice study or the equivalent  
(b) Voice Major: Six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of four semesters of Mus 113).

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of four semesters of Mus 113 constitutes passing the Piano Proficiency Test.

Private study as a major in one area (7 semesters) 14



# Music

Concert Chorale (7 semesters)\*\*\*\* 14  
**Education Certification Requirements**  
 (page 118) 40-41  
 162-163

\*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

\*\*See Prerequisites

\*\*\*Must be completed prior to the Professional Semester of supervised teaching.

\*\*\*\*Must be taken the seven semesters immediately prior to the student teaching semester.

## Bachelor of Science in Education with a Major in Music

Plan B Single Teaching Field  
 Option III Double Certification

Core Curriculum Requirements  
 (page 35) 51\* 48  
**Music Requirements** 108

All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement 86

Private study as an applied major in one primary area (7 semesters) 14

Private study as an applied elective in one secondary area (4 semesters) A proficiency test in the secondary major area must be passed before graduation 8

A senior recital will be required only in the primary applied area.

**Education Certification Requirements**  
 (page 118) 40-41  
 196-197

\*The required course in psychology satisfies both certification requirements and 3 hours of Core Curriculum.

## Minor in Music

	Semester Hours
Mus 111	
Music Theory	3
Mus 112	
Music Theory	3
Large Ensemble	4
Applied Music Elective (2 Semesters)	2
Music Electives*	9
	21

\*Must be made with prior approval of music adviser, 6 must be upper division.

## Suggested Orders of Study

**Bachelor of Arts**  
 Major Code 1005  
**Music Major**

### Freshman Year

Course	Hours
Mus 111 Music Theory	3
Mus 207 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [Eng 101 Comp I]	3
CORE [Mus 110 Music Apprec]	3
Psy 120 College Orientation	1
	15-16

### 2nd Semester

Mus 112 Music Theory	3
Mus 109 Sight Singing & Ear Training	2
Mus 208 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [Eng 102 Comp II]	3
CORE [Math 110 Intro to Col Math]	3
	16-17

### Sophomore Year

Course	Hours
Mus 211 Music Theory	3
Mus 210 Sight Singing & Ear Training	2
Mus 207 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [HPER 103 Lifetime Wellness]	2
CORE [HPER 101 Physical Activity]	1
CORE [Hist 110 U.S. History]	3
CORE [Econ 180 Amer Econ System]	3
	19-20

### 2nd Semester

Mus 212 Music Theory	3
Mus 208 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [Hist 120 U.S. History]	3
CORE [Bio 101 General Biology]	4
CORE [Psy 100 General Psychology]	3
	18-19

### Junior Year

Course	Hours
Mus 182 Conducting Techniques	2
Mus 420 Form, Analysis	3
Mus 407 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2

Mus Large Ensemble	2
CORE [Comm 100 Oral Comm]	3
Foreign Language	3
	16-17

### 2nd Semester

Mus 444 Advanced Conducting	2
Mus 408 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus 431 Orchestration	3
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [Art 110 or Th 110 Apprec]	3
Foreign Language	3
	16-17

### Senior Year

Course	Hours
Mus 311 History of Music	3
Mus 407 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus Applied Piano or Music Elective	1-2
Mus Large Ensemble	2
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Eng 281 or 282 Lit]	3
Foreign Language	3
	19-20

### 2nd Semester

Mus 312 History of Music	3
Mus 408 Applied Music Major	2
Mus 240 Recital Attendance	Cr
Mus 450 Senior Recital	1-2
Mus Large Ensemble	2
CORE [PSc 120 Gov't: U.S., State, Local]	3
Educ 401 Use of Comp Software in Class (Or computer course approved by music dept.)	2
CORE [Soc 342 Comparative Cultures]	3
Foreign Language	3
	19-20

[] Department Recommendation

For additional information contact:  
 Mr. Pete Havely  
 Office: Music Building 216  
 Phone: 625-9318

**Bachelor of Science in Education**  
 Major Code 0832

**Music Major**  
 (Plan B) Single Teaching Field  
 Piano Major With Vocal Emphasis

### Freshman Year

Course	Hours
Mus 111 Music Theory	3
Mus 207 Applied Music-Major Piano	2
Mus 105 Applied Music-Voice	1
Mus 121 Choir	2
Mus 240 Recital Attendance	Cr
CORE [Eng 101 Comp I]	3
Psy 120 College Orientation	1
CORE [Mus 110 Music Apprec]	3



Psy 100	General Psychology	3	Mus 306	Applied Music Voice	1	2nd Semester			
Educ 100	Orientation to Educ I	1	Mus 321	Choir	2	Mus 112	Music Theory	3	
		19	Mus 240	Recital Attendance	Cr	Mus 232			
			Mus 333	Music in Elem Grades	2	OR			
			Mus 431	Orchestration	3	Mus 234	Brass/Woodwind Techniques	1	
			CORE	[Hist 320 U.S. History]	3	Mus 109	Sight Singing & Ear Training	2	
			Psy 301	Adolescent Psychology	3	Mus 208	Applied Music Major Piano	2	
2nd Semester					21	Mus 192	Band	2	
Mus 112	Music Theory	3				Mus 240	Recital Attendance	Cr	
Mus 109	Sight Singing & Ear Training	2				CORE	[Eng 102 Comp II]	3	
Mus 208	Applied Music Major Piano	2				CORE	[HPER 103 Lifetime Wellness]	2	
Mus 106	Applied Music Voice	1				CORE	[HPER 101 Physical Activity]	3	
Mus 121	Choir	2				CORE	[Math 110 Intro to Col Math]	3	
Mus 240	Recital Attendance	Cr				CORE	[Econ 180 Amer Econ System]	3	
CORE	[Eng 102 Comp II]	3							
CORE	[Math 110 Intro to Col Math]	3							
Mus	Instrumental Elective	2							
CORE	[Econ 180 Amer Econ System]	3							
		21							22
<b>Sophomore Year</b>						<b>Sophomore Year</b>			
1st Semester						1st Semester			
Mus 310	Vocal Techniques	2				Mus 231			
Mus 211	Music Theory	3				OR			
Mus 210	Sight Singing & Ear Training	2				Mus 233	String/Percussion Techniques	1	
Mus 207	Applied Music Major Piano	2				Mus 121			
Mus 105	Applied Music Voice	1				OR			
Mus 121	Choir	2				Mus 310	Choir or Vocal Techniques	2	
Mus 240	Recital Attendance	Cr				Mus 211	Music Theory	3	
CORE	[HPER 103 Lifetime Wellness]	2				Mus 210	Sight Singing & Ear Training	2	
CORE	[HPER 101 Physical Activity]	1				Mus 207	Applied Music Major Piano	2	
CORE	[Eng 281 or 282 American Lit]	3				Mus 240	Recital Attendance	Cr	
Educ 200	Orientation to Educ II	1				CORE	[Hist 110 U.S. History]	3	
Educ 302	Exceptional Child	2				Educ 200	Orientation to Educ II	1	
		21				Educ 302	Exceptional Child	2	
						Mus 191	Band	2	
						Psy 301	Adolescent Psychology	3	
2nd Semester									21
<i>Apply for admission to Teacher Education</i>									
Mus 212	Music Theory	3							
Mus 208	Applied Music Major Piano	2							
Mus 106	Applied Music Voice	1							
Mus 121	Choir	2							
Mus 240	Recital Attendance	Cr							
CORE	[Hist 110 U.S. History]	3							
CORE	[Comm 100 Oral Comm]	3							
CORE	[Bio 101 General Biology]	4							
CORE	[PSc 120 Gov't: U.S., State, Local]	3							
		21							
<b>Junior Year</b>						<b>2nd Semester</b>			
1st Semester						<i>Apply for admission to Teacher Education</i>			
<i>Pass media competencies</i>						Mus 232			
Mus 182	Conducting	2				OR			
Mus 311	History of Music	3				Mus 234	Brass/Woodwind Techniques	1	
Mus 420	Form & Analysis	3				Mus 212	Music Theory	3	
Mus 407	Applied Music Major Piano	2				Mus 208	Applied Music Major Piano	2	
Mus 305	Applied Music Voice	1				Mus 292	Band	2	
Mus 321	Choir	2				Mus 240	Recital Attendance	Cr	
Mus 240	Recital Attendance	Cr				CORE	[Hist 120 U.S. History]	3	
Educ 329	Pedagogical Theory, Methods & Practices	4				CORE	[Bio 101 General Biology]	4	
Educ 321	Microteaching	2				CORE	[Comm 100 Oral Comm]	3	
Educ 423	Classroom Management	2				CORE	[Eng 281 or 282 American Lit]	3	
		21							21
<b>2nd Semester</b>						<b>Junior Year</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr				Mus 240	Recital Attendance	Cr	
Educ 329	Pedagogical Theory, Methods & Practices	4				Educ 329	Pedagogical Theory, Methods & Practices	4	
Educ 321	Microteaching	2				Educ 321	Microteaching	2	
Educ 423	Classroom Management	2				Educ 423	Classroom Management	2	
		21							21
<b>2nd Semester</b>						<b>2nd Semester</b>			
1st Semester						1st Semester			
<i>Pass media competencies</i>						<i>Pass media competencies</i>			
Mus 182	Conducting	2				Mus 182	Conducting Techniques	2	
Mus 311	History of Music	3				Mus 305	Applied Music Woodwind/Brass	1	
Mus 420	Form & Analysis	3				Mus 311	History of Music	3	
Mus 407	Applied Music Major Piano	2				Mus 420	Form & Analysis	3	
Mus 305	Applied Music Voice	1				Mus 407	Applied Music Major Piano	2	
Mus 321	Choir	2				Mus 391	Band	2	
Mus 240	Recital Attendance	Cr							



# Music

## 2nd Semester

Mus 444	Advanced Conducting	2
Mus 306	Applied Music Woodwind/Brass	1
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 392	Band	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 431	Orchestration	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3

CORE [Art 110 or Th 110 Apprec]

21

## Senior Year

### 1st Semester

*Apply for Student Teaching. All courses must be completed except for Professional Semester.*

Mus 411	Marching Band Methods	1
Mus 342	Band	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Major Piano	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2

Educ 422 Techniques of Reading  
CORE [Soc 342 Comparative Cultures]

21

## 2nd Semester

Mus 335	Teaching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 420	Intro to Counseling	OR
Psy 412	Meas & Eval in Educ	2
Educ 464	Student Teaching	8

16

[] Department Recommendation

For additional information contact:  
Mr. Pete Havely  
Office: Music Building 216  
Phone: 625-9318

## Bachelor of Science in Education

Major Code 0832

**Music Major (Plan B) Single Teaching Field Vocal Major**

## Freshman Year

### 1st Semester

Course	Hours
Mus 111	Music Theory 3
Mus 207	Applied Music Voice 2
Mus 113	Class Piano 1
Mus 121	Choir 2
Mus 240	Recital Attendance Cr
CORE	[Eng 101 Comp I] 3
Psy 120	College Orientation 1
CORE	[Mus 110 Music Apprec] 3
Psy 100	General Psychology 3
Educ 100	Orientation to Educ I 1
	<b>19</b>

## 2nd Semester

Mus 112	Music Theory
Mus	Instrumental Elective
Mus 109	Sight Singing & Ear Training
Mus 208	Applied Music Voice
Mus 114	Class Piano
Mus 121	Choir
Mus 240	Recital Attendance
CORE	[Eng 102 Comp II]
CORE	[HPER 103 Lifetime Wellness]
CORE	[HPER 101 Physical Activity]
CORE	[Math 110 Intro to Col Math]

## Sophomore Year

### 1st Semester

Mus 310	Vocal Techniques
Mus 213	Class Piano
Mus 211	Music Theory
Mus 210	Sight Singing & Ear Training
Mus 207	Applied Music Voice
Mus 121	Choir
Mus 240	Recital Attendance
CORE	[Eng 281 or 282 American Lit]
Educ 200	Orientation to Educ II
Educ 302	Exceptional Child
CORE	[Econ 180 Amer Econ System]

## 2nd Semester

*Apply for Admission to Teacher Education*

Mus 214	Class Piano
Mus 212	Music Theory
Mus 208	Applied Music Voice
Mus 121	Choir
Mus 240	Recital Attendance
CORE	[Hist 110 U.S. History]
CORE	[Bio 101 General Biology]
CORE	[Comm 100 Oral Comm]
CORE	[Art 110 or Th 110 Apprec]

## Junior Year

### 1st Semester

#### Pass Media Competencies

Mus 182	Conducting Techniques
Mus 311	History of Music
Mus 420	Form & Analysis
Mus 407	Applied Music Voice
Mus 305	Piano
Mus 321	Choir
Mus 240	Recital Attendance
Educ 329	Pedagogical Theory, Methods & Practices
Educ 321	Microteaching
Educ 423	Classroom Management

## 2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Voice	2
Mus 306	Piano	1
Mus 321	Choir	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 431	Orchestration	3

CORE	[PSc 120 Gov't: U.S., State, Local]	3
Psy 301	Adolescent Psychology	3
		<b>21</b>

## Senior Year

### 1st Semester

*Apply for Student Teaching. All courses must be completed except for Professional Semester.*

Mus 421	Choir	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Voice	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
CORE	[Phys 100 Fund of Phys Sci]	5
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2
Educ 422	Teaching Reading in Sec Schools	2
CORE	[Soc 342 Comparative Cultures]	3
CORE	[Hist 320 U.S. History]	3

## 2nd Semester

Mus 335	Teaching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 420	Intro to Counseling*	
OR		
Psy 412	Meas & Eval in Educ	2
Educ 464	Student Teaching	8
		16

[] Department Recommendation

\*Must be taken at night prior to Student Teaching

For additional information contact:

Mr. Pete Havely

Office: Music Building 216

Phone: 625-9318

## Bachelor of Science in Education

Major Code 0832

**Music Major (Plan B) Single Teaching Field Instrumental Major**

## Freshman Year

### 1st Semester

Course	Hours
Mus 111	Music Theory 3
Mus 207	Applied Music Major 2
Mus 113	Class Piano 1
Mus 207	Applied Music Major 2
Mus 113	Class Piano
Mus 191	OR
Mus 151	Band/Orchestra 2
Mus 233	String/Percussion Techniques 1
Mus 240	Recital Attendance Cr
CORE	[Eng 101 Comp I] 3
Psy 120	College Orientation 1
CORE	[Mus 110 Music Apprec] 3
Psy 100	General Psychology 3
Educ 100	Orientation to Educ I 1
	<b>20</b>



# Music/Paralegal

## 2nd Semester

Mus 112	Music Theory	3
Mus 109	Sight Singing & Ear Training	2
Mus 208	Applied Music Major	2
Mus 114	Class Piano	1
Mus 192		
OR		
Mus 152	Band or Orchestra	2
Mus 232		
OR		
Mus 234	Brass/Woodwind Techniques	1
Mus 240	Recital Attendance	Cr
CORE	[Eng 102 Comp II]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 Physical Activity]	1
CORE	[Math 110 Intro to Col Math]	3

## Sophomore Year

### 1st Semester

Mus 121		
OR		
Mus 310	Choir or Vocal Techniques	2
Mus 213	Class Piano	1
Mus 211	Music Theory	3
Mus 210	Sight Singing & Ear Training	2
Mus 207	Applied Music Major	2
Mus 231		
OR		
Mus 233	String/Percussion Techniques	1
Mus 191		
OR		
Mus 151	Band or Orchestra	2
Mus 240	Recital Attendance	Cr
CORE	[Eng 281 or 282 American Lit]	3
Educ 200	Orientation to Educ II	1
Educ 302	Exceptional Child	2
CORE	[Econ 180 Amer Econ System]	3

### 2nd Semester

#### Apply for admission to Teacher Education

Mus 214	Class Piano	1
Mus 212	Music Theory	3
Mus 208	Applied Music Major	2
Mus 232		
OR		
Mus 234	Brass/Woodwind Techniques	1
Mus 192		
OR		
Mus 152	Band or Orchestra	2
Mus 240	Recital Attendance	Cr
CORE	[Hist 110 U.S. History]	3
CORE	[Bio 101 General Biology]	4
CORE	[Comm 100 Oral Comm]	3
Psy 301	Adolescent Psychology	3

## Junior Year

### 1st Semester

#### Pass Media Competencies

Mus 182	Conducting Techniques	2
Mus 311	History of Music	3
Mus 420	Form & Analysis	3
Mus 407	Applied Music Major	2
Mus 391		

## OR

Mus 351	Band or Orchestra	2
Mus 240	Recital Attendance	Cr
Educ 329	Pedagogical Theory, Methods & Practices	4
Educ 321	Microteaching	2
CORE	[Art 110 or Th 110 Apprec]	3
Educ 423	Classroom Management	2

## 2nd Semester

Mus 444	Advanced Conducting	2
Mus 312	History of Music	3
Mus 408	Applied Music Major	2
Mus 392		
OR		
Mus 352	Band or Orchestra	2
Mus 240	Recital Attendance	Cr
Mus 333	Music in Elem Grades	2
Mus 431	Orchestration	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
Educ 422	Teaching Reading in Sec Schools	2

## Senior Year

### 1st Semester

#### Apply for Student Teaching. All course work must be completed except Professional Semester.

Mus 391		
OR		
Mus 351	Band or Orchestra	2
Mus 411	Marching Band Methods	2
Mus 432	Music in Public School	2
Mus 408	Applied Music Major	2
Mus 450	Senior Recital	Cr
Mus 240	Recital Attendance	Cr
Psy 310	Educational Psychology	2
CORE	[Phys 100 Fund Phys Sci]	5
CORE	[Soc 342 Comparative Cultures]	3
Educ 401	Use of Comp Software in Class (or computer course approved by music dept.)	2
CORE	[Hist 320 U.S. History]	3

## 2nd Semester

Mus 335	Teaching Music in Sec School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 420	Intro to Counseling*	
OR		
Psy 412	Meas & Eval in Educ	2
Educ 464	Student Teaching	8

[] Department Recommendation

\*Must be taken at night prior to Student Teaching.

For additional information contact:

Mr. Pete Havely  
Office: Music Building 216  
Phone: 625-9318

## Paralegal Studies

Mansion 115, 625-9564

Faculty Tate - Head, Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the requirements for the minor. Students must have an adviser in paralegal studies.

## Minor in Paralegal Studies

	Semester Hours
PLS 201 Intro to Legal Assistance	3
PLS 302 Legal Research	3
Electives from the following:	15
PLS 298 Topics in Paralegal Studies	3
PLS 311 Property*	3
PLS 312 Civil Litigation*	3
PLS 320 Family Law*	3
PLS 401 Wills, Trusts and Probate*	3
GB 301 Business Law I	3
GB 302 Business Law II	3
PSc 431 Constitutional Law I	3
PSc 432 Constitutional Law II	3
PLS 491 Internship**	3
PLS 498 Senior Seminar**	3
PLS 499 Independent Study**	
OR	
One of the following:	3
LE 250 Criminal Law	
PSc 322 International Law	
GB 411 Labor Law	

\*Highly Recommended

\*\*See Prerequisites

## Suggested Order of Study

Associate of Arts

Major Code 7999

Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)



# Philosophy/Physics

## Freshman Year

### 1st Semester

Course	Hours
PLS 201 Intro to Legal Assistance	3
PLS 302 Legal Research	3
CORE [Eng 101 Comp I]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
Psy 120 College Orientation	1
CORE [HPER 103 Lifetime Wellness]	2
CORE [HPER 101 Physical Activity]	1
	16

### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Hist 110 U.S. History 1492-1877]	3
OR	
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Math 110 Intro to Col Math]	3
CORE [Bio 101 General Biology]	4
PLS Upper Division Electives	3
	16

## Sophomore Year

### 1st Semester

CORE [Econ 180 Amer Econ System]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Humanities and Fine Arts]	3
PLS Upper Division Electives	6
	17

### 2nd Semester

CORE [Comm 100 Oral Comm]	3
CORE [Literature]	3
CORE [Humanities and Fine Arts]	3
PLS 491 Internship	3
PLS Upper Division Elective	3
	15

[] Department Recommendation

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact:

Dr. Michael Yates  
Office: Mansion 202  
Phone: 625-9333

## Philosophy

Hearnes Hall 312, 625-9659

**Faculty** Lambert - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought--science, religion, art, morality and politics--and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and

precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management and theological seminars.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.

## Physics

Reynolds Hall 210, 625-9376

**Faculty** Baiamonte - Head, Knapp, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 143)

## Bachelor of Science with a Major in Physics

Core Curriculum Requirements (page 35) 51*	Semester Hours
<b>Physics Requirements</b>	36
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 341 Thermal Physics**	4
Phys 372 Electronic Circuits**	4

Phys 381 Intermediate Physics Laboratory**	3
Phys 401 Electricity and Magnetism**	4
Phys 452 Quantum Mechanics**	
OR	
Phys 480 Selected Topics in Physics & Engineering	3
Phys 498 Seminar	1
<b>Supporting Requirements</b>	26
Chem 101 General Chemistry I**	5
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Math 322 Differential Equations**	3
Comp 120 Fortran	3
<b>Electives***</b>	23
	128****

\*Required physics, chemistry and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Suggested Electives (Chem 102, Comp 200, Math 351, Math 431 and Phys 480)

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Physics

### Plan A

### One of Two Teaching Fields

Core Curriculum Requirements (page 35) 51*	Semester Hours
<b>Physics Requirements</b>	36
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Phys 301 Modern Physics**	4
Phys 322 Classical Mechanics**	3
Phys 381 Intermediate Physics Laboratory**	3
Phys 498 Seminar	2
<b>Supporting Requirements</b>	31
Chem 101 General Chemistry I**	5
Geol 300 Environmental Geology	4
Bio 101 General Biology	4
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Math 260 Calculus with Analytical Geometry III**	5
Comp 120 Fortran (in place of Educ 401)	3



# Physics

**Education Certification Requirements**  
(page 118) 39  
**Second Teaching Field (some fields exceed 30 hours)** 30  
158\*\*\*

\*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Varies with 2nd field

## Bachelor of Science with a Major in Physics

### Plan B Single Teaching Field

Semester Hours

**Core Curriculum Requirements**  
(page 35) 51\* 36

**Physics Requirements** 33

Phys 250 General Physics I\*\* 5  
Phys 260 General Physics II\*\* 5  
Phys 301 Modern Physics\*\* 4  
Phys 312 Statics\*\* 3  
Phys 322 Classical Mechanics\*\* 3  
Phys 341 Thermal Physics\*\* 4  
Phys 372 Electronic Circuits 4  
Phys 381 Intermediate Physics Laboratory\*\* 3

Phys 498 Seminar 2

**Supporting Requirements** 36

Chem 101 General Chemistry I\*\* 5  
Chem 102 General Chemistry II\*\* 5  
Bio 101 General Biology 4  
Geol 300 Environmental Geology 4  
Math 150 Calculus with Analytical Geometry I\*\* 5  
Math 250 Calculus with Analytical Geometry II\*\* 5  
Math 260 Calculus with Analytical Geometry III\*\* 5  
Comp 115 Computing I (in place of Educ 401) 3

**Education Certification Requirements**  
(page 118) 39  
144

\*Required physics, chemistry, mathematics, biology and psychology courses satisfy major requirements and 15 hours of the Core Curriculum.

\*\*See Prerequisites

\*\*\*Suggested Electives (Math 322, Phys 300 and Geol 110)

## Minor in Physics

Semester Hours

Phys 250 General Physics I 5  
Phys 260 General Physics II 5  
Physics Upper Division Electives (Excluding Phys 300) 8  
18

## Suggested Orders of Study

### Bachelor of Science

Major Code 1902

#### Physics Major

##### Freshman Year

###### 1st Semester

Course	Hours
Math 150 Calculus I	5
Chem 101 General Chemistry I (Alg & Trig)	5
CORE [Eng 101 Comp I]	3
Phys 140 Essential Skills in Physics	3
Psy 120 College Orientation	1
	17

###### 2nd Semester

Phys 250 General Physics I (Math 150)	5
Math 250 Calculus II (Math 150)	5
Elective [Chem 102 General Chem II]	5
CORE [Eng 102 Comp II]	3
	18

##### Sophomore Year

###### 1st Semester

Phys 260 General Physics II (Phys 250)	5
Math 260 Calculus III (Math 250)	5
Comp 120 Fortran	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Hist 110 U.S. History]	3
	18

###### 2nd Semester

Phys 322 Classical Mechanics	
OR	
Phys 341 Thermal Physics	3-4
Phys 372 Electronic Circuits	4
Math 322 Differential Equations	3
CORE [Hist 120 or Hist 320 U.S. History]	3
	17-18
CORE [Econ 180 Amer Econ System]	3
CORE [HPER 101 Physical Activity]	1
	17-18

##### Junior Year

###### 1st Semester

Phys 301 Modern Physics	4
Phys 381 Intermediate Physics Lab	
OR	
Phys 401 Electricity & Magnetism	3-4
CORE [Bio 101 General Biology]	
OR	
CORE [Humanities and Fine Arts]	3
CORE [Psy 100 General Psychology]	
OR	
CORE [Soc 110 Sociology]	3
	17-18

###### 2nd Semester

Phys 341 Thermal Physics	
OR	
Phys 322 Classical Mechanics	4-3
Phys 452 Quantum Mechanics	
OR	
Phys 480 Selective Topics	3
Math Elective	3
CORE [Comm 100 Oral Comm]	3

CORE [Humanities and Fine Arts] 3  
16-15

#### Senior Year

##### 1st Semester

Phys 401 Electricity & Magnetism	
OR	
Phys 381 Intermediate Physics Lab	4-3
CORE [Humanities and Fine Arts]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
Phys or Math Elective	3
Electives	3
	16-15

##### 2nd Semester

Phys 452 Quantum Mechanics	
OR	
Phys 480 Selective Topics	3
Phys 498 Seminar	1
CORE [International Cultural Studies]	3
Electives	9
	16

() Prerequisite

[] Department Recommendation

Students should enroll in Comp 120 Computing II before the junior year.

For additional information contact:

Dr. Russell Phillips

Office: Reynolds Hall 208

Phone: 625-9719

#### Bachelor of Science in Education

Major Code 0848

#### Physics Major (Plan B)

#### Single Teaching Field

##### Freshman Year

###### 1st Semester

Course	Hours
Psy 100 General Psychology	3
Math 150 Calculus I	5
CORE [Eng 101 Comp I]	3
Phys 140 Essential Skills in Physics	3
Psy 120 College Orientation	1
Educ 100 Orientation to Education I	1
CORE [HPER Lifetime Wellness]	2
	18

###### 2nd Semester

Chem 101 General Chemistry I	5
Math 250 Calculus II (Math 150)	5
CORE [Eng 102 Comp II]	3
Phys 250 General Physics I (Math 150)	5
	18

##### Summer Session

Bio 101 General Biology	4
	7

##### Sophomore Year

###### 1st Semester

Math 260 Calculus III (Math 250)	5
Phys 260 General Physics II (Phys 250)	5
Geol 300 Environmental Geology	4
Educ 200 Orientation to Education II	1
Psy 301 Adolescent Psychology	3
	18



# Political Science

## 2nd Semester

### Apply for Admission to Teacher Education

Phys 372	Electronic Circuits	4
Phys 322	Classical Mechanics	OR
Phys 341	Thermal Physics	3-4
Educ 302	The Exceptional Child	2
CORE	[Comm 100 Oral Comm]	3
Comp 115	Computing I	3
CORE	[HPER 101 Physical Activity]	1

16-17

## Summer Session

Chem 102	General Chemistry II	5
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## Junior Year

### 1st Semester

#### Pass Media Competencies

Phys 312	Statics	3
Phys 301	Modern Physics	4
Educ 321	Microteaching	2
Educ 329	Pedagogical Theory, Methods & Practices	4
Psy 310	Educational Psychology (Psy 110)	2
Educ 423	Classroom Management	2

17

## 2nd Semester

### Apply for student teaching. All course work must be completed except for Professional Semester courses.

Phys 341	Thermal Physics (4)	OR
Phys 322	Classical Mechanics (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
Educ 422	Teaching Reading in the Sec School	2
CORE	[Hist 110 U.S. History]	3

17-18

## Senior Year

### 1st Semester

Phys 381	Intermediate Physics Lab	3
Phys 498	Seminar	2
CORE	[Econ 180 Amer Econ System]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or Hist 370 U.S. History]	3
CORE	[International Cultural Studies]	3

17

## 2nd Semester

Educ 333	Teaching Science in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec	8
Select One:		
Educ 412	Individual Curriculum Development (2)	3
Educ 420	Introduction to Counseling (Night only, must be taken semester prior to student teaching.) (3)	3
Psy 412	Measurement and Evaluation in Education and Psychology (2)	2-3

17-18

() Prerequisites

[] Department Recommendation

For additional information contact:  
Dr. Russell Phillips  
Office: Reynolds Hall 208  
Phone: 625-9719

## Political Science

Mansion 115, 625-9564

Faculty Tate - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis - certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other disciplines. In addition, see page (76) for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

## Bachelor of Arts with a Major in Political Science

Semester Hours

Core Curriculum Requirements (page 35) 51*	48
Computer Literacy Requirement - determined by the social science department	2-3
Foreign Language (four courses in one language)	12
Political Science Requirements	36
PSc 120 Gov't: U.S., State, Local	3
PSc Electives** chosen with approval of political science adviser	33
Electives	29-30
	128***

\*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Social Studies

### Political Science Emphasis Plan B Single Teaching Field

Semester Hours

Core Curriculum Requirements (page 35) 51*	33
Political Science Requirements	15
PSc 120 Gov't: U.S, State, Local	3
PSc Upper Division Electives	12
Supporting Requirements	36
Hist 110 U.S. History 1492-1877	3
Hist 120 U.S. History 1877-Present	OR
Hist 320 U.S. History 1877-Present	3
Hist 130 Western Civilization to 1660	3
Hist 140 Western Civilization Since 1660	3
Hist Upper Division U.S.** (Not 320)	6
Hist Upper Division East Asian**	3
Soc 110 Intro to Sociology	3
Soc Upper Division Elective**	3
Geog 211 Regions and Nations	3
Geog Upper Division Elective	3
Econ 180 Amer Econ System	3
Electives	3-4
Education Certification Requirements (see page 118)	40-41
	128

\*Required political science, history, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

## Minor in Political Science

Semester Hours

PSc 120 Gov't: U.S., State, Local	3
PSc Electives*	18
	21

\*Must be chosen with approval of a political science adviser.

## Suggested Order of Study

Bachelor of Arts  
Major Code 2207  
Political Science Major

### Freshman Year

1st Semester		Hours
Course		
Foreign Language		3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. Hist 1492-1877]	3



# Sociology

CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
Psy 120	College Orientation	1

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## 2nd Semester

Foreign Language		3
CORE	[Eng 102 Comp II]	3
CORE	[Hist 120 U.S. Hist 1877-Present]	3
OR		
CORE	[Hist 320 U.S. Hist 1877-Present]	3
CORE	[Bio 101 General Biology]	4
CORE	[Humanities and Fine Arts]	3

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## Sophomore Year

### 1st Semester

PSc 120	Gov't: U.S. State, Local	3
CORE	[English Lit]	3
Foreign Language		3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 Physical Activity]	1

17

### 2nd Semester

CORE	[Econ 201 Prin of Econ-Macro]	3
PSc	[Upper Division Elective approved by adviser]	3
Foreign Language		3
CORE	[Soc 110 Intro to Sociology]	3
Electives		5

17

## Junior Year

### 1st Semester

PSc	[Upper Division]	6
CORE	[International Cultural Studies]	3
[Computer Literacy course selected with adviser's approval]		3
CORE	[Humanities and Fine Arts]	3

15

### 2nd Semester

PSc	[Upper Division]	9
Electives		8

17

## Senior Year

### 1st Semester

PSc	[Upper Division Electives]	9
Electives [Upper Division]		6

15

### 2nd Semester

PSc	[Upper Division Elective]	6
Electives [Upper Division]		10

16

\*Also meets a Core Curriculum requirement  
[] Department Recommendation

For additional information contact:  
Dr. Donald R. Youst  
Office: Mansion 112  
Phone: 625-9588

## Bachelor of General Studies

Major Code 4999

### Prelaw

## Freshman Year

### 1st Semester

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Hist 110 U.S. Hist 1492-1877]	3
CORE [Comm 100 Oral Comm]	3
CORE [Soc 110 Intro to Sociology]	3
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1

15

### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Math 131 Finite Math]	3
CORE [Bio 101 General Biology]	4
CORE [English Lit]	3
Psy 100 General Psychology	3

16

## Sophomore Year

### 1st Semester

CORE [English Lit]	3
Phil 201 Intro to Philosophy	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Phys 100 Fund of Phys Sci]	5
Acct 201 Prin of Accounting I	3

17

### 2nd Semester

2nd Semester		
CORE	[HPER 101 Physical Activity]	1
Acct 202	Prin of Accounting II	3
CORE	[Humanities and Fine Arts]	3
Comp 105	Intro to Microcomputer Use	
OR		
Comp 115	Computing I	3
CORE	[Econ 180 Amer Econ System]	3
CORE	[Hist 120 U.S. Hist 1877-Present]	
OR		
CORE	[Hist 320 U.S. Hist 1877-Present]	

16

## Junior Year

### 1st Semester

Eng 315 Exposition	3
CORE [International Cultural Studies]	3
Electives*	10

16

### 2nd Semester

Electives*	16
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## Senior Year

### 1st and 2nd Semesters\*

\*Curriculum should be planned with the prelaw adviser. The major may be selected within almost any academic discipline emphasizing academic skills which will enable the student to perform well on the Law School Admission Test and in the rigorous studies of law school. The major will be determined by the student's interests and the type of law in which he or she plans to specialize.

For additional information contact:  
Mrs. Annetta St. Clair  
Office: Mansion 204  
Phone: 625-9547

# Sociology

Mansion 115, 625-9564

**Faculty** Tate - Head, Conboy, Gubera, Krueger, Miller

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 76 for a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; either Sociology 155 or 342 meet the requirement in Area 5, International Cultural Studies.

## Bachelor of Arts with a Major in Sociology

	Semester Hours
<b>Core Curriculum Requirements</b> (page 35) 51*	45
<b>Computer Literacy Requirement - determined by the social sciences department</b>	2-3
<b>Foreign Language (four courses in one language)</b>	12
<b>Sociology Requirements</b>	30
Soc 110 Intro to Sociology	3
Soc 210 Social Problems**	3
Soc 311 Social Stratification**	3
Soc 342 Comparative Cultures**	3



# Sociology

Soc 431	Sociological Research Methods**	3
Soc 482	Sociological Theory**	3
Soc	Electives (3 hrs. must be upper division)	12
Psy 311	App Stat**	
OR		
Math 310	Elementary Statistics**	3
<b>Supporting Area (approved by sociology adviser)**</b>		<b>15</b>
<b>Electives</b>		<b>20-21</b>
		<b>128****</b>

\*Required sociology course 110 and Soc 342 satisfies six hours of Core Curriculum requirements.

\*\*See Prerequisites

\*\*\*A minor is highly recommended.

\*\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science with a Major in Sociology

<b>Core Curriculum Requirements (page 35) 51*</b>		<b>45</b>
<b>Sociology Requirements</b>		<b>36</b>
Soc 110	Intro to Sociology	3
Soc 155	Physical Anthropology & Archaeology	3
Soc 311	Social Stratification**	3
Soc 362	Deviant Behavior**	3
Soc 431	Social Research Methods**	3
Soc 482	Sociological Theory**	3
Soc	Electives (Emphasis in upper division)	18
<b>Supporting Requirements</b>		<b>12</b>
Comp 105	Intro to Microcomputer Use	3
Soc 300	Computer Applications for the Soc Sci	3
Psy 320	App Stat for Behavioral & Natural Sciences**	
OR		
Math 310	Elementary Statistics**	3
Geog	Elective	3
<b>Electives</b>		<b>35</b>
		<b>128***</b>

\*Required Sociology course 110 and Soc 342 satisfies six hours of Core Curriculum requirements.

\*\*See Prerequisites

\*\*\*Must include at least 40 upper division (300 - 400 level) hours.

## Bachelor of Science in Education with a Major in Social Studies

## Sociology Emphasis Plan B Single Teaching Field

<b>Core Curriculum Requirements (page 35) 51*</b>		<b>33</b>
<b>Sociology Requirements</b>		<b>21</b>
Soc 110	Intro to Sociology	3
Soc 221	Marriage and Family	3
Soc 210	Social Problems**	3
Soc 342	Comparative Cultures**	3
Soc	Electives (6 hours upper division)**	9
<b>Supporting Requirements</b>		<b>36</b>
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization To 1660	3
Hist 140	Western Civilization From 1660	3
Hist	Upper Division U.S. Electives** (not 320)	6
Hist	Upper Division East Asian Elective**	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
PSc 120	Gov't; U.S., State, Local	3
PSc	Upper Division Elective**	3
Econ 180	Amer Econ System	3

## Education Certification Requirements (page 118)

**40-41 130-131**  
\*Required courses in history, political science, sociology and economics satisfy major requirements and 18 hours of Core Curriculum.

\*\*See Prerequisites

## Minor in Sociology

<b>Semester Hours</b>		
Soc 110	Intro to Sociology	3
Soc	Electives*	6
Soc	Electives - Upper Division*	12
		<b>21</b>

\*Select with prior approval of a sociology adviser. See prerequisites where applicable.

## Minor in Sociology with Emphasis in Social Work

<b>Semester Hours</b>		
Soc 110	Intro to Sociology	3
Soc 221	Marriage and Family	3
Soc 210	Social Problems*	3
Soc 306	Sociology of Aging*	3
Soc 331	Intro to Social Work I*	3

Soc 332	Intro to Social Work II**	3
Soc 496	Internship**	3

**21**

\*See Prerequisites

\*\*Admission dependent on departmental committee approval.

## Suggested Order of Study

### Bachelor of Arts Major Code 2208 Sociology Major

#### Freshman Year

<b>1st Semester</b>		
Course		Hours
Soc 110*	Intro to Sociology	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. Hist 1492-1877]	3
CORE	[Humanities and Fine Arts]	3
Foreign Language		3
Psy 120	College Orientation	1
		<b>16</b>

#### 2nd Semester

<b>Foreign Language</b>		<b>3</b>
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
CORE	[Econ 180 Amer Econ System]	3
CORE	[Bio 101 General Biology]	4
		<b>16</b>

#### Sophomore Year

<b>1st Semester</b>		
Soc 210	Social Problems**	3
Foreign Language		3
CORE	[Humanities and Fine Arts]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Comm 100 Oral Comm]	3
		<b>15</b>

#### 2nd Semester

Soc	Elective	3
<b>Foreign Language</b>		<b>3</b>
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Hist 120 U.S. History 1877-Present]	
OR		
CORE	[Hist 320 U.S. History 1877-Present]	3
		<b>14</b>

#### Junior Year

<b>1st Semester</b>		
Course		
Soc 311	Social Stratification**	3
Soc 342*	Comparative Cultures**	3
CORE	[English Lit]	3
Psy 320	App Stat**	3
	(Psy 311 or Math 310)	
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
		<b>15</b>

#### 2nd Semester

Supporting Area [A minor is suggested]	5
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# Social Science

Comp 105 [Computing I] 3Electives

## Senior Year

1st Semester

Soc 431 Sociological Research Methods\*\*

Soc [Upper Division Elective]  
Supporting Area [A minor is suggested]  
Soc Electives  
Elective

2nd Semester

Soc 482 Sociological Theory\*\*  
Supporting Area [A minor is suggested]  
Electives

\*Also meets a Core Curriculum requirement

\*\*Prerequisites

[] Department Recommendation

The student is to select a supporting area in consultation with a sociology adviser.

## Bachelor of Science

Major Code 2220

### Sociology Major

## Freshman Year

1st Semester

Course	Hours
Soc 110 Intro to Sociology*	3
CORE [Eng 101 Comp I]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [Econ 180 Amer Econ System]	3
Elective	3
Psy 120 College Orientation	1
	16

2nd Semester

Soc 155 Physical Anthropology & Archaeology	3
CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Comm 100 Oral Comm]	3
CORE [Phys 100 Fund of Phys Sci]	5
	17

## Sophomore Year

1st Semester

Soc Elective with approval of adviser	3
CORE [Math 131 Finite Math]	3
CORE [English Lit]	3
Geog Elective**	3
CORE [Bio 101 General Biology]	4
	16

2nd Semester

Soc Elective	3
CORE [Humanities and Fine Arts]	3
Elective	3
CORE [HPER 103 Lifetime Wellness]	2
Elective [A minor is suggested]	6
	17

## Junior Year

1st Semester

Soc 311 Social Stratification***	3
CORE [Soc 342 Comparative Cultures]	3
Comp 105 Computing I	3
CORE [Humanities and Fine Arts]	3
CORE [Hist 120 U.S. History 1877-Present]	3
OR	
CORE [Hist 320 U.S. History 1877-Present]	3
CORE [HPER 101 Physical Activity]	1
	16

2nd Semester

Soc 362 Deviant Behavior***	3
Soc Elective	3
Electives [A minor is suggested]	7
Psy 320 App Stat or Math 310***	3
	16

## Senior Year

1st Semester

Soc 431 Soc Research Methods**	3
Soc Electives	6
Elective [A minor is suggested]	6
	15

2nd Semester

Soc 482 Sociological Theory***	3
Soc 300 Computer App in Soc Sci***	3
Electives [A minor is suggested]	9
	15

\*Also meets a Core Curriculum requirement

\*\*Select from Geography 211, 311 or 322.

\*\*\*Prerequisites

[] Department Recommendation

The student is to select a minor in consultation with a sociology adviser.

For additional information contact:

Dr. Conrad Gubera

Office: Mansion 201

Phone: 625-9653

# Social Science

Mansion 115, 625-9564

**Faculty** Tate - Head, Blevins, Conboy, Gubera, Holman, Krueger, Laas, Markman, Miller, St. Clair, Sale, Simpson, Smith, Tewerow, Yates, Youst

Within the social sciences are the disciplines of geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and hu-

man services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

## Minor in Social Science

	Semester Hours
Hist 110 U.S. History	3
Hist 120 U.S. History	
OR	
Hist 320 U.S. History	3
PSc 120 Gov't: U.S., State, Local	3
Geog Elective	3
Soc Elective (100 - 200 level)	3
Select three (3) social science courses at the 300 - 400 level (other than Hist 320)	9
	24

Nine hours of these requirements apply to the Core Curriculum.

## Minor in Social Studies for Secondary Education

This minor meets social studies requirements for certifying secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty adviser.

	Semester Hours
Hist 110 U.S. History	3
Hist 120 U.S. History	
OR	
Hist 320 U.S. History	3
PSc 120 Gov't: U.S., State, Local	3
Additional hours from the following: 15	
Hist 130 or Hist 140 Western Civilization	3



Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3
Hist	Upper Division U.S. Elective (not 320)	3
Hist	Upper Division East Asian Elective	3

24

## Programs and Degree Offerings

See Geography (page 61); History, (page 62); Paralegal Studies, (page 70); Political Science, (page 73); and Sociology, (page 74) for specific degree requirements, minors, A.A. paralegal program and suggested orders of study.

## Theatre

Taylor Auditorium 243, 625-9393

**Faculty** Fields - Head, Claussen, D. Hunt, Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

Theatre Performance/Design  
Television Production/Performance  
Commercials  
Public Relations  
Stage Management  
Graduate Study  
Executive Leadership  
Recreational Directorship  
Technical Theatre  
Personnel Management  
Government Service  
Fashion Industry

### Factors Unique to Theatre Department:

1. hands-on experience for students in acting, house and stage management, directing and technical design-execution;
2. a children's theatre play program performing for over 12,000 people annually from the four state area;
3. play participation open to all Southern students, faculty and staff;
4. theatre faculty members who have professional experience in their teaching specialties;
5. a modern, well-equipped mainstage theatre as well as flexible space for studio productions;
6. two theatre organizations: College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (plan B). A minor in theatre is also available.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

## Bachelor of Arts with a Major in Theatre

Semester Hours

<b>Core Curriculum Requirements</b> (page 35) 51*	42
<b>Computer Literacy Requirement Comp 105 or above</b>	3
<b>Foreign Language (four courses in one language)</b>	12
<b>Theatre Requirements</b>	46
Th 121,122,221,222 Theatre Laboratory (Select two)	4
Th 142 Theatre Technology	3
Th 231 Speech for Stage	3
Th 232 Costume Technology	3
Th 233 Stage Make-up	1
Th 241 Acting I	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume Design	3
Th 320 Lighting Design	
OR	
Th 361 History of Costume	
OR	
Th 372 Directing II	3
Th 422 Acting III**	
OR	
Th 431 Creative Dramatics	3
Th 441 Stage Design	3
Th Electives	5***
<b>Supporting Requirements</b>	9
Art 110 Art Appreciation	3
Mus 110 Music Appreciation	3
Hist 130 OR 140 Western Civ.	3
<b>Electives</b>	16
	128****

\*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

\*\*See Prerequisites

\*\*\*A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 of the Core Curriculum.

\*\*\*\*Three Writing Intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

## Bachelor of Science in Education with a Major in Theatre/Speech Communications

Plan B Single Teaching Field

Semester Hours

<b>Core Curriculum Requirements</b> (page 35) 51*	48
<b>Computer Literacy Requirements - Educ 401</b>	2
<b>Theatre Requirements</b>	17
Th 121 or 122 or 221 or 222 Theatre Laboratory	2
Th 142 Theatre Tech	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 331 History of Theatre (WI)	
OR	
Th 332 History of Theatre	3
Th 351 Directing I**	3
<b>Communication Requirements</b>	12
Comm 101 Intro to Human Comm	3
Comm 215 Interpersonal Comm**	3
Comm 304 Small Group Comm	3
Comm 315 Argumentation and Debate**	3
<b>Theatre or Speech Communication Electives***</b>	11
<b>Education Certification Requirements****</b> (page 118)	38-39
<b>Electives</b>	3
	131-132
*Required course in psychology counts 3 hours toward Core Curriculum requirements, Area 3C.	
**See Prerequisites	
***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.	



# Theatre

\*\*\*\*In addition to Psy 110 and Education 401.

## Minor in Theatre

Semester Hours  
Th 121, 122, 221, 222 Theatre Laboratory (Select two) 4  
Th 110 Theatre Appreciation 3  
Choose a total of 11 hours from the following list of classes: 11\*

Th 142	Theatre Technology	3
Th 212	Oral Interpretation	3
Th 233	Stage Makeup	1
Th 231	Speech for Stage	3
Th 251	Audition Techniques for the Actor	1
Th 232	Costume Technology	3
Th 311	Stage Management	2
Th 241	Acting I	3
Th 298	Explorations in Theatre (When Offered)	3
Th 320	Stage Lighting**	3
Th 331	Theatre History (WI)	3
Th 332	Theatre History	3
Th 341	Acting II**	3
Th 351	Directing I	3
Th 361	History of Costume	3
Th 362	Stage Costume Design	3
Th 372	Directing II**	3
Th 422	Acting III**	3
Th 441	Stage Design	3

18

\*All courses must be selected with adviser approval. Six hours must be upper division.

\*\*See Prerequisites

## Suggested Orders of Study

Bachelor of Arts  
Major Code 1007  
Theatre Major

### Freshman Year

#### 1st Semester

Course	Hours
Th 121 Theatre Lab	2
Th 231 Speech For Stage	3
Th 233 Stage Makeup	1
CORE [Eng 101 Comp I]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Comm 100 Oral Comm]	3
Psy 120 College Orientation	1
	15

#### 2nd Semester

Th 142 Theatre Tech	3
Th 241 Acting I	3
CORE [Hist 140 Western Civilization]	3
CORE [Eng 102 Comp II]	3
CORE [Math 110 or above]	3
	15

### Sophomore Year

#### 1st Semester

Th 341 Acting II*	3
Th 221 Theatre Lab	2
Comp 105 or above Computer Literacy Requirement	3
CORE [Area 2-A Elective]	3
CORE [English Literature Choice]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [HPER 101 Physical Activity]	1
	18

#### 2nd Semester

Th 422 Acting III*@	3
Th 232 Costume Tech	3
Th Elective	3
Art Elective (support req)	3
CORE [Area 2-C Elective]	3
CORE [Psy 100 or Soc 110]	3
	18

### Junior Year

#### 1st Semester

Th 212 Oral Interpretation	3
Th 441 Stage Design*	3
Th Electives	4
CORE [Bio 101 General Biology]	4
Foreign Language	3
	17

#### 2nd Semester

Th 362 Stage Costume Design	3
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Phys 100 Physical Science]	5
Foreign Language	3
CORE [Econ 180 Amer Econ System]	3
	17

### Senior Year

#### 1st Semester

Th 320 Lighting Design@	3
Th 331 History of Theatre	3
Th 351 Directing I	3
Foreign Language	3
Elective [Eng or Th]	3
	15

#### 2nd Semester

Th 332 History of Theatre	3
Th 372 Directing II*@	3
Foreign Language	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
	15

Elective [Eng or Th]

[] Department Recommendation

\*See Prerequisites

@May be substituted for approved class in tech or acting area.

Supporting Electives:

Accounting, Art, Business, Communications, English, Music, Computer Science

For additional information contact:

Dr. Jay Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

### Bachelor of Science in Education

Major Code 0844

#### Speech and Theatre

#### Theatre Emphasis

#### Plan B Single Teaching Field

### Freshman Year

#### 1st Semester

Courses	Hours
Educ 100 Orientation to Education I	1
Psy 100 General Psychology	3
Th 121 Theatre Lab	2
CORE [Eng 101 Comp I]	3
Psy 120 College Orientation	1
CORE [Comm 100 Oral Comm]	3
CORE [HPER 101 Physical Activity]	1
Th Elective - Makeup	1
	15

#### 2nd Semester

Th 142 Theatre Tech	3
CORE [Area 2-A Elective]	3
CORE [Hist 110 U.S. History 1492-1877]	3
CORE [Eng 102 Comp II]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Math 110 or above]	3
	17

### Sophomore Year

#### 1st Semester

Educ 200 Orientation to Education II	1
Comm 101 Intro to Human Comm	3
CORE [Hist 120 U.S. History 1877-Present]	3
CORE [Area 2-C Elective]	3
CORE [Econ 180 Amer Econ System]	3
Th 212 Oral Interpretation	3
	16

#### 2nd Semester

<i>Apply for admission to teacher education</i>	
Educ/Psy 302 The Exceptional Child	2
Educ 401 Computer Software	2
Comm 215 Interpersonal Comm	3
CORE [PSc 120 Gov't; U.S., State, Local]	3
	10

Th Elective*	3
Th 241 Acting I	3
Psy 301 Adolescent Psychology	3
	19

### Junior Year

#### 1st Semester

Psy 310 Educational Psychology	2
Educ 329 Pedagogical Theory, Methods & Practices	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2
Comm 304 Small Group Comm	3
CORE [Area 5-A Elective]	3
	16

Note: 1) Pass Media Competencies

2) See Educ 420 below\*\*

#### 2nd Semester

Educ 422 Teaching Reading in the Sec School	2
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# Courses/Art

Th Electives\*  
CORE [Phys 100 Physical Science]  
CORE [Area 2-B Elective]  
Electives

## Senior Year

### 1st Semester

*Apply for student teaching. All course work must be completed except for Professional Semester courses.*

Th 331 History of Theatre  
Th 351 Directing I  
Comm 315 Argumentation & Debate  
CORE [Bio 101 General Biology]  
Th Electives\*

### 2nd Semester

Educ 344 Teaching Speech & Theatre in Sec Schools  
Educ 402 Foundations in Educ  
Educ 432 Critical Issues  
Select One:  
Educ 412 Individual Curriculum Development (2)  
Educ 420 Intro to Counseling\*\*  
Note: Offered at night only. Must be taken the semester prior to student teaching (3)Psy  
412 Meas & Eval in Educ & Psy (2)  
Educ 462 Student Teaching in Sec Schools

[ ] Department Recommendation

\*See prerequisites

For additional information contact:

Dr. Jay E. Fields

Office: Taylor Performing Arts Center 243

Phone: 625-9393

## School of Arts and Sciences

### Course Descriptions

#### Art (Art)

##### Art Composition (F and/or S)

50.0799-100 3 hrs. cr.  
Introduction to studio projects using fundamental techniques, media and theories.

##### Art Appreciation (F, S)

50.0703-110 3 hrs. cr.  
A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for non-art majors.

##### Beginning Ceramics (F and/or S)

50.0202-120 3 hrs. cr.  
Methods and techniques of throwing and/or hand building with application of glazing and

4 firing. Six studio hrs. per week. Lab fee required.

##### Beginning Drawing (F and/or S)

50.0705-130 3 hrs. cr.  
Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media.

##### Introduction to Design (F and/or S)

50.0401-132 3 hrs. cr.  
Foundation studio projects using art principles and elements of structure. Primarily a two-dimensional design course. Six studio hrs. per week.

##### Arts & Crafts (F or S)

50.0299-200 3 hrs. cr.  
Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

##### Beginning Jewelry Design/Metalsmithing (F and/or S)

50.0206-205 3 hrs. cr.  
Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and/or Art 132, or approval of instructor.

##### Beginning Sculpture (F and/or S)

50.0709-211 3 hrs. cr.  
Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 132 and/or Art 230, or approval of instructor.

##### Art Education (F, S)

50.1302-220 2 hrs. cr.  
Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors.

##### Basic Form (F and/or S)

50.0401-230 3 hrs. cr.  
Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100.

##### Beginning Painting (F and/or S)

50.0708-232 3 hrs. cr.  
Procedures, techniques, historical processes and basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and Art 130.

##### Advanced Drawing (F and/or S)

50.0705-300 3 hrs. cr.  
Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 100 and Art 130 or approval of instructor.

##### Art History, Prehistoric Through Gothic (F, Odd)

50.0703-301 3 hrs. cr.  
Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, north Africa and Europe.

##### Art History, Renaissance Through Baroque (S, Even)

50.0703-302 3 hrs. cr.  
Historical survey of the visual arts of Europe from the early renaissance through the Baroque and Rococo. Comparative study of other cultures included.

##### Art History, 19th Century (F, Odd)

50.0703-303 3 hrs. cr.  
Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism.

##### Art History, 20th Century (S, Even)

50.0703-304 3 hrs. cr.  
Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

##### Seminar (F and/or S)

50.0799-305 3 hrs. cr.  
Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.

##### Transparent Watercolor (F or S)

50.0708-310 3 hrs. cr.  
Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hrs. per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 130 or permission of instructor.

##### Beginning Printmaking (S)

50.0799-312 3 hrs. cr.  
Procedures, techniques and fundamentals of the (1) relief, intaglio process: etching, drypoint, aquatint, softground; and (2) collagraph and silkscreen printmaking. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required.

##### Advanced Sculpture (F and/or S)

50.0709-321 3 hrs. cr.  
Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.

##### Advanced Sculpture (F and/or S)

50.0709-322 3 hrs. cr.  
Continuation of Art 321. Six studio hrs. per week.



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Lab fee required. May be repeated for a total of 6 credit hrs.

## Graphic Communications I (F)

50.0402-325 3 hrs. cr.  
Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100, Art 130 and Art 132.

## Advanced Jewelry Design/Metalsmithing (F and/or S)

50.0206-330 3 hrs. cr.  
Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.

## Graphic Communications II (S)

50.0402-350 3 hrs. cr.  
Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.

## Advanced Painting (F and/or S)

50.0708-401 3 hrs. cr.  
Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

## Advanced Ceramics (F and/or S)

50.0202-407 3 hrs. cr.  
Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.

## Special Projects in Art I (F and/or S)

50.0799-420 3 hrs. cr.  
Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee may be required. May be repeated for a total of 6 credit hrs.

## Life Drawing (F and/or S)

50.0708-421 3 hrs. cr.  
Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six

studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232.

## Graphic Communications III (F)

50.0402-425 3 hrs. cr.  
Continued study of Graphic Communications II with an emphasis on the design and preparation of three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.

## Advanced Printmaking (S)

50.0799-430 3 hrs. cr.  
Advanced intaglio, relief and stencil processes. Advanced studio methods for color registration and mixed media procedure. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.

## Special Projects in Art II (F and/or S)

50.0799-440 3 hrs. cr.  
Same as Art 420. May be repeated for a total 6 credit hrs. Lab fee may be required.

## Graphic Communications IV (S)

50.0403-450 3 hrs. cr.  
Study and techniques of illustration for printing and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

## Graphic Communications Internship (Demand)

50.0402-475 1-8 hrs. cr.  
An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.

## Senior Exhibit (F)

50.0799-490 2 hrs. cr.  
Prepares senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

# Biology (Bio)

## General Biology (F, S)

26.0101-101 4 hrs. cr.  
General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab

per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

## Botanical Survey (F, S)

26.0301-112 3 hrs. cr.  
Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

## General Zoology (F, S)

26.0701-121 4 hrs. cr.  
Introduction to the basic principles of human cytology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 306. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

## Zoological Survey (F, S)

26.0701-122 3 hrs. cr.  
Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

## General Physiology (F, S)

(Writing Intensive)  
26.0401-210 4 hrs. cr.  
Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

## Microbiology (Demand)

26.0501-211 5 hrs. cr.  
Structure and function of microorganisms with emphasis on classification, the role of microorganisms in the environment and the use of microorganisms in research and industry. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 211 or 231 but not both. Prerequisite: Bio 101 or 121.

## Fundamentals of Medical Microbiology (F, S)

26.0501-231 5 hrs. cr.  
For students interested in medical professions. Topics include general principles of microbiology, immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include either Bio 211 or 231 but not both. Prerequisite: Bio 101 or 121.

## Radiation Biology (S)

26.0610-240 3 hrs. cr.  
Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Bio 306 and 5 hrs. of chemistry or acceptance into the School of Radiologic Technology.

## Animal Nutrition (Demand)

26.0609-261 3 hrs. cr.  
Biochemistry and fundamental principles of ani-



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mal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Chem 301 or permission of instructor. (Does not count toward any biology major.)

## Principles of Plant Propagation (Demand)

26.0101-271 3 hrs. cr.  
Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week. (Does not count toward a biology major.)

## Research Methods in Biology (Demand)

26.0101-290 2 hrs. cr.  
Development of investigational and technical skills required in biology and related fields. Students learn to use the library and to prepare proposals and reports. Familiarizes students with field and laboratory techniques, research design and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisites: Bio 112 or 122.

## Selected Topics in Biology (Demand)

26.0101-298 1-8 hrs. cr.  
Specific topic or topics not normally included in another course. Prerequisite: Bio 112 and 122 or permission of instructor.

## Computer Applications in Biology (Demand)

26.9999-303 2 hrs. cr.  
Explores ways in which microcomputers are used to better understand and study biological phenomena. Develops computer literacy and technical expertise required in research, graduate school, teaching and in many other occupations. One lecture, 3-hrs. of lab per week. Prerequisites: 15 hours of biology and an introductory course in computing or permission of instructor.

## Genetics (F, S)

(Writing Intensive)

26.0703-305 4 hrs. cr.  
Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

## Human Physiology and Anatomy (F, S)

26.0601-306 5 hrs. cr.  
Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Prerequisite: Bio. 121 or permission of instructor.

## Pathophysiology (F)

26.0704-308 4 hrs. cr.  
Altered physiological states, the cellular mani-

festations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 306 and 211 or 231.

## Environmental Biology (F)

26.0603-312 4 hrs. cr.  
Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110 or permission of instructor. (Double listed in Environmental Health Technology.)

## Economic Botany (F)

26.0301-316 3 hrs. cr.  
Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological, textile usage, etc. Three lectures a week. Prerequisite: Bio 101.

## Cell Biology (S, Odd)

26.0401-318 4 hrs. cr.  
Detailed cell structure and function with emphasis on both cytological morphology and physiology. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, 210, 305 and Chem 301 or permission of instructor.

## Taxonomy of Flowering Plants (S)

26.0301-322 4 hrs. cr.  
Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisites: Bio 112.

## Comparative Vertebrate Anatomy (F)

26.0704-331 5 hrs. cr.  
Fundamental course designed to enhance understanding and appreciation of the structure and adaptations of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisites: Bio 122.

## Introduction to Entomology (F, Even)

26.0702-332 3 hrs. cr.  
Collecting methods, taxonomy, life history, morphology and evolution of insects. Prerequisites: Bio 122. Two lectures, one 3-hr. lab per week.

## Microtechnique (Demand)

26.0501-342 2 hrs. cr.  
Principles of preserving, fixing, staining and mounting biological materials. Prerequisites: Bio 112 and 122. Two 2-hr. labs per week.

## Biomes (Demand)

26.0603-352 2 hrs. cr.  
In-depth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually

lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission of instructor.

## Parasitology (F, Even)

26.0601-361 4 hrs. cr.  
Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 122.

## Virology (F, Odd)

26.0501-362 3 hrs. cr.  
Structure and life cycles of bacterial, animal and plant viruses. Significance of viruses in disease and the use of viruses in modern biological research. Three lectures per week. Prerequisites: Bio 211 or 231 and 305.

## Environmental Health (Demand)

26.0704-370 4 hrs. cr.  
Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 211 or 231, junior standing in science or permission of instructor. (Double listed in Environmental Health Technology.)

## Plant Physiology (Demand)

26.0307-371 4 hrs. cr.  
Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 210.

## Epidemiology (S, Odd)

18.1107-380 2 hrs. cr.  
Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisites: Bio 290, EHT 312, (Bio 312) and EHT 370, (Bio 370) or permission of instructor. (Double listed in Environmental Health Technology.)

## General Ecology (S)

26.0603-402 4 hrs. cr.  
Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission of instructor.

## Invertebrate Zoology (F, Odd)

26.0706-422 5 hrs. cr.  
Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 122.



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## Animal Physiology (S, Odd)

26.0706-431 5 hrs. cr.  
Comparative approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2-hr. labs per week. Prerequisite: 10 hrs. of biology.

## Histology (S, Even)

26.0606-433 4 hrs. cr.  
Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week. Prerequisite: 10 hrs. of zoology or permission of instructor.

## Plant Pathology (Demand)

26.0305-440 4 hrs. cr.  
Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112.

## Internship in Biology (F, S)

26.9999-450 1-8 hrs. cr.  
In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs.

## Immunology (S, Even)

26.0704-456 3 hrs. cr.  
Cellular and molecular basis of the immune response in vertebrates will be studied, including the role of the immune systems in disease prevention, hypersensitivity, transplantation immunity and regulation of the immune response. Recommended for students who are interested in careers in cellular and molecular biology and medicine. Three lectures per week. Prerequisites: Bio 211 or 231 and 305 or permission of instructor.

## Embryology (S, Odd)

26.0604-462 5 hrs. cr.  
Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisites: Bio 331 or permission of instructor.

## Aquatic Ecology (S, Odd)

26.0101-481 4 hrs. cr.  
Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisites: Bio 122.

## Seminar (F, S)

26.9999-490 1 hr. cr.  
Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Faculty members, as well as students, will present reviews in their

various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science.

## Seminar in Biology (F, S)

26.9999-498 1-3 hrs. cr.  
For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission of instructor.

## Problems in Biology (F, S)

26.9999-499 1-3 hrs. cr.  
Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of biology.

## Chemistry (Chem)

### Introductory Chemistry (F, S)

40.0501-100 5 hrs. cr.  
Basic principles and practical applications of inorganic, organic and biochemistry which satisfies the needs of students in certain health-related programs. Four lectures, one 3-hr. lab per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

### General Chemistry I (F, S)

40.0501-101 5 hrs. cr.  
Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Four lectures, one 3-hr. lab per week. Prerequisite or corequisite: Math 140 or higher level math course.

### General Chemistry II (F, S)

40.0501-102 5 hrs. cr.  
Continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Four lectures, one lab per week. Prerequisites: Chem 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course.

### Analytical Chemistry I (F)

40.0502-201 5 hrs. cr.  
Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

### Selected Topics in Chemistry (F, S)

40.0599-298 1-3 hrs. cr.  
Special topics in chemistry not normally in-

cluded in other courses. Prerequisite: Chem 201 or permission of instructor.

## Intro to Modern Organic Chemistry (S)

40.0504-300 5 hrs. cr.  
Principles of organic chemistry--nomenclature, structure, properties, stereochemistry, reactions--will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

## Organic Chemistry I (F)

40.0504-301 5 hrs. cr.  
Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. Brief introduction to organic spectroscopy included. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

## Organic Chemistry II (S)

(Writing Intensive)  
40.0504-302 5 hrs. cr.  
Continuation of Chem 301. Organic-spectroscopy discussed in detail. The functional group approach is continued: Aryl halides, phenols, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and lab. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 301.

## Applications of Computers in Chemistry (S)

40.0599-320 2 hrs. cr.  
Applications of microprocessors and modern microcomputers in chemistry: management of chemical information; chemical data collection, reduction and quantitation; use of remote information systems (via modem); analytical instrument interfacing; publication. Prerequisite: Chem 301 and Comp 115 or higher level computer science course.

## Biochemistry (F)

26.0201-351 4 hrs. cr.  
Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

## Physical Chemistry I (F, Odd)

40.0506-401 4 hrs. cr.  
Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three



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lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 260.

### Physical Chemistry II (S, Even)

40.0506-402 4 hrs. cr.  
Continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases and chemical kinetics. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 401.

### Analytical Chemistry II (S)

40.0502-421 5 hrs. cr.  
Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 201.

### Advanced Inorganic Chemistry (S, Even)

40.0503-422 4 hrs. cr.  
Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

### Organic Qualitative Analysis (S, Odd)

40.0509-472 4 hrs. cr.  
Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

### Seminar (F, S)

40.0599-498 1-3 hrs. cr.  
For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

### Independent Study (F, S)

40.0599-499 1-3 hrs. cr.  
Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 15 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Registration must be approved by adviser, department head and school dean.

## Communications (Comm)

### Oral Communication (F, S)

09.0101-100 3 hrs. cr.  
Principles of oral communication, including

speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

### Introduction to Human Communication (F, S)

09.0101-101 3 hrs. cr.  
An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

### Newsriting (F, S)

09.0401-111 3 hrs. cr.  
Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, *The Chart*, is required.

### Forensics Workshop (F, S)

23.1001-121 (Per Sem.) 1 hr. cr.  
A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

### Introduction to Broadcasting (S)

09.0701-130 3 hrs. cr.  
The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

### Voice and Diction (F, S)

23.1001-131 3 hrs. cr.  
Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.

### Radio Production (F, S)

09.0701-200 3 hrs. cr.  
Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Work on air at KXMS. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week. Prerequisites: Comm 131.

### Television Production (F, S)

09.0701-201 3 hrs. cr.  
Intensive practice in preparation and production of television programs. Camera techniques, floor set-ups and direction of crews and talent. Interviewing techniques. Development of varied on-the-air skills. Two hrs. lectures, 2 hrs. lab per week.

### Business and Professional Speech (F, S)

09.0101-203 3 hrs. cr.  
A performance-oriented course designed to fos-

ter ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion and individual speaking formats are included.

### Listening (S, Even)

09.0101-205 3 hrs. cr.  
A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.

### Interpersonal Communication (F, S)

(Writing Intensive)  
09.0101-215 3 hrs. cr.  
Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

### Practicum in Communications (F, S)

09.0401-220 (Per Sem.) 1 hr. cr.  
Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for *The Chart* or *Crossroads*, Comm 111; for KXMS, Comm 200; for TV, Comm 201.

### Feature Writing (F)

09.0401-231 3 hrs. cr.  
Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.

### Copyediting (S)

09.0401-233 3 hrs. cr.  
Principles of copy reading and editing, design of newspaper. Paste-up techniques. Students work in positions of major responsibilities on the College newspaper, *The Chart*. Prerequisite: Comm 111.

### Selected Topics in Communications (Demand)

09.0101-298 1-8 hrs. cr.  
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

### Organizational Communication (F)

23.1001-300 3 hrs. cr.  
The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.

### Broadcast and Cable Management (S, Even)

09.0701-301 3 hrs. cr.  
Broadcast station administration, market analy-



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sis, policy determination, station organization, sales, programming, network relationships, community involvement and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

## Photocommunications (Demand)

09.0401-302 3 hrs. cr.  
Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

## Small Group Communication (F)

(Writing Intensive)  
09.0101-304 3 hrs. cr.  
Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making and leadership style. Prerequisite: Comm 100.

## Intercultural Communication (F, S)

(Writing Intensive)  
09.0101-305 3 hrs. cr.  
Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

## Persuasion (S)

09.0101-306 3 hrs. cr.  
A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

## Professional Interviewing (F)

09.0101-307 3 hrs. cr.  
Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewee. Prerequisite: Comm 100.

## Communication Law (S)

09.0401-310 3 hrs. cr.  
Statutes, administrative regulations and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and broadcasting. Rights, privileges and obligations of the press.

## Introduction to Public Relations (S, even)

09.0101-311 3 hrs. cr.  
Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial report-

ing, visual and electronic media techniques.

## Scholastic Publications (Demand)

09.0401-312 3 hrs. cr.  
Editorial and production practices of school newspapers and yearbooks. The role of the publications adviser; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.

## Argumentation and Debate (F, Even)

23.1001-315 3 hrs. cr.  
The theory of the modern forms of evidence, evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.

## Advanced Television Production (S)

09.0701-320 3 hrs. cr.  
Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television, or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.

## Forensics Workshop (F, S)

23.1001-321 (Per Sem.) 1 hr. cr.  
Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.

## Broadcast News Reporting (F)

(Writing Intensive)  
09.0601-325 3 hrs. cr.  
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

## Advanced Communications Practicum (F, S)

09.0401-330 1 hr. cr.  
Intensive laboratory experience on the staff of the College newspaper, yearbook or broadcast media. Students will work for a minimum of 10 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220.

## Internship in Communications (F, S, Summer)

09.0101-345 1-8 hrs. cr.  
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. For some specific internships available, application must be made during the first half of one semester for the following semester. These internships are highly competitive and are awarded only to

exceptional students. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites.

## Nonverbal Communication (S)

09.0101-401 3 hrs. cr.  
The thrust of the course will be to study types and effects of various nonverbal communication behaviors and to develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.

## Broadcast Programming (F)

09.0701-402 3 hrs. cr.  
An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations and superstations are compared and contrasted. Prerequisite: Comm 130.

## Political and Social Communication (S, Even)

09.0101-411 3 hrs. cr.  
Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.

## Mass Communications Theory (S)

09.0401-420 3 hrs. cr.  
Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.

## Professional Communication Skills (S)

(Writing Intensive)  
09.0101-490 3 hrs. cr.  
Writing, speech preparation and the public presentation of ideas. Both written and oral presentations are required and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100 and Eng 102.

## Communication Issues (S)

09.0101-492 3 hrs. cr.  
Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing, plus 15 hrs. in communications.

## International Communication (S, Even)

09.0101-493 3 hrs. cr.  
Comparative analysis of media systems through-



# Courses/English

out the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.

## Seminar in Speech Communication (Demand)

09.0101-498 3 hrs. cr.  
For upper-division students. Topics to be announced each time the course is offered.

## Seminar in Mass Communications (Demand)

09.0401-498 1-3 hrs. cr.  
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing and at least 15 hrs. of communications courses. Juniors may enroll with permission of instructor.

## Independent Study in Speech Communication

09.0101-499 1-3 hrs. cr.  
An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0 or approval of department head. Projects must be approved by adviser, department head and school dean prior to enrollment.

## Independent Study in Mass Communications

09.0401-499 1-3 hrs. cr.  
Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: A GPA of 3.0 in the major field and 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.

## English (Eng)

### Basic Composition

23.0401-080 3 hrs. cr.  
Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English 101.

### Freshman Composition I

(Writing Intensive)  
23.0401-101 3 hrs. cr.  
Principles of effective writing based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)

### Freshman Composition II

(Writing Intensive)  
23.0401-102 3 hrs. cr.  
Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)

### Advanced Freshman Composition

(Writing Intensive)  
23.0401-111 3 hrs. cr.  
For freshmen demonstrating exceptional proficiency

on placement tests. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six-hr. composition requirement. However, students receiving a "D" in English 111 must take English 102.

### Introduction to Literature

23.0101-150 3 hrs. cr.  
An examination of literary themes, techniques and approaches reflected in the genres of fiction, poetry and drama. (Meets Core Curriculum requirements.)

### Introduction to Film Studies

23.0101-160 3 hrs. cr.  
An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.

### Creative Writing (S)

(Writing Intensive)  
23.0501-216 3 hrs. cr.  
Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

### Masterpieces of World Literature

23.0301-261 3 hrs. cr.  
Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)

### Masterpieces of World Literature

23.0301-262 3 hrs. cr.  
Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)

### English Literature

23.0801-271 3 hrs. cr.  
Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)

### English Literature

23.0801-272 3 hrs. cr.  
Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)

### American Literature

23.0701-281 3 hrs. cr.  
A survey of American literature from its beginning to the Civil War. (Meets Core Curriculum requirements.)

### American Literature

23.0701-282 3 hrs. cr.  
A survey of American literature from its beginning to the Civil War to the present. (Meets Core Curriculum requirements.)

### Explorations in Literature (Demand)

23.0101-298 3 hrs. cr.  
Studies in a variety of literary subjects. Topic open.

### Modern Grammar (F)

23.0101-301 3 hrs. cr.  
Survey of the major descriptive approaches to

English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage and practical classroom applications.

### The Short Story

23.0101-305 3 hrs. cr.  
An in-depth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)

### Professional Writing (F)

(Writing Intensive)  
23.0401-310 3 hrs. cr.  
An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.

### Technical Writing

(Writing Intensive)  
23.0401-313 3 hrs. cr.  
An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upper-level students preparing for careers in science, technology or social science.

### Exposition (S)

23.0401-315 3 hrs. cr.  
The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.

### Creative Writing: Poetry

(Writing Intensive)  
23.0401-316 3 hrs. cr.  
An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.

### Creative Writing: Fiction

(Writing Intensive)  
23.0401-317 3 hrs. cr.  
An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.

### Composition for Teachers (F)

(Writing Intensive)  
23.0401-319 3 hrs. cr.  
For prospective teachers of English. A review of grammar, practice in writing and the theory of teaching writing.

### Children's Literature (S)

23.0101-325 3 hrs. cr.  
A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development and its uses in the elementary school. Does not count toward an English major.

### Literature for Adolescents

23.0101-330 3 hrs. cr.  
An extensive reading course for English education students including evaluation of adolescent



# Courses/Foreign Languages

literature, some methodology for classroom use and a major unit on minority literature.

## Women's Literature

23.0101-335 3 hrs. cr.  
A study of the literary tradition of women authors writing in English.

## Black American Literature

23.0701-340 3 hrs. cr.  
Writings by Black Americans from the Colonial Period to the present.

## The American Novel

23.0701-345 3 hrs. cr.  
Representative works of authors such as Hawthorne, Melville, Twain and Faulkner.

## Recent American Fiction

23.0701-350 3 hrs. cr.  
The major movements in American fiction since World War II.

## Arthurian Literature

23.0801-355 3 hrs. cr.  
Emphasizes the origins and development of Arthurian legends in the Middle Ages; studies treatment of Arthurian literature in modern times. Works read in modern times. Works read in modern English translation. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

## Twentieth Century Drama

23.0101-360 3 hrs. cr.  
World drama from Shaw to the present. Emphasis on American and British dramatists.

## Twentieth Century Poetry

23.0101-370 3 hrs. cr.  
British and American poetry from Yeats to the present.

## The English Novel

23.0801-380 3 hrs. cr.  
Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens and Joyce.

## Continental Novel

23.0301-385 3 hrs. cr.  
Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

## Comparative Epic

23.0301-390 3 hrs. cr.  
Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

## Comparative Lyric Poetry

23.0301-391 3 hrs. cr.  
Intensive study of a range of European and non-European lyric poetry in translation. (Meets

Core Curriculum requirements in Area 5, International Cultural Studies.)

## History of the English Language (S)

23.0801-400 3 hrs. cr.  
The ancestors of English and the effect of other languages, peoples and cultures upon the development of English. Phonology, morphology, syntax and usage of the language throughout its history.

## Medieval English Literature

23.0801-410 3 hrs. cr.  
Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of Chaucer.

## Renaissance Prose and Poetry

23.0801-415 3 hrs. cr.  
English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, Milton.

## English Drama to 1800

23.0801-420 3 hrs. cr.  
English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, Congreve.

## Restoration and Eighteenth Century English Literature

23.0801-425 3 hrs. cr.  
The rise of Neoclassicism, the Enlightenment and the decline of Neoclassicism in literature from 1660-1798, Dryden to Gray.

## The Romantic Period

23.0801-430 3 hrs. cr.  
English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

## The Victorian Period

23.0801-435 3 hrs. cr.  
English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning and Dickens.

## Shakespeare (F)

23.0801-450 3 hrs. cr.  
Selected comedies, histories, tragedies, romances and poems.

## English Literature: Major Figures

23.0801-455 3 hrs. cr.  
An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.

## American Literature: Major Figures

23.0701-460 3 hrs. cr.  
An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

## Literary Criticism

23.0101-480 3 hrs. cr.  
Major schools of criticism and the major representatives of each school.

## Seminar in Literature

23.0101-498 3 hrs. cr.  
For advanced English majors or by permission of department head. Topic open.

## Independent Study

23.0101-499 3 hrs. cr.  
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.

## Foreign Languages and Literatures

### Arabic (Ara)

#### Beginning Arabic I (Demand)

16.1101-101 3 hrs. cr.  
Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

#### Beginning Arabic II (Demand)

16.1101-102 3 hrs. cr.  
A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

#### Intermediate Arabic I (Demand)

16.1101-203 3 hrs. cr.  
Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

#### Intermediate Arabic II (Demand)

16.1101-204 3 hrs. cr.  
Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

### Chinese (Chi)

#### Beginning Chinese I (Mandarin) (Demand)

16.0301-101 3 hrs. cr.  
Pronunciation, grammar, elementary conversation, development of basic communicative skills.

#### Beginning Chinese II (Mandarin) (Demand)

16.0301-102 3 hrs. cr.  
A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

#### Intermediate Chinese I (Mandarin) (Demand)

16.0301-203 3 hrs. cr.  
Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

#### Intermediate Chinese II (Mandarin) (Demand)

16.0301-204 3 hrs. cr.  
A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.



# Courses/Foreign Languages

## French (Fren)

### Beginning French I (F, S)

16.0901-101 3 hrs. cr.  
An introduction to the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures.

### Beginning French II (F, S)

16.0901-102 3 hrs. cr.  
A continuation of Fren 101. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures. Prerequisite: Proficiency level of NOVICE, or Fren 101.

### Intermediate French I (F, S)

16.0901-203 3 hrs. cr.  
A continuation of Fren 102. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Fren 102.

### Intermediate French II (F, S)

16.0901-204 3 hrs. cr.  
A continuation of Fren 203. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Fren 203.

### Selected Topics in French (Demand)

16.0901-298 1-8 hrs. cr.  
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

### Readings & Conversation (F, S)

16.0901-301 3 hrs. cr.  
Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.

### Readings in Literature & Culture (F, S)

16.0901-302 3 hrs. cr.  
Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Fren 301.

### French Composition (Demand)

16.0901-303 3 hrs. cr.  
Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.

### Advanced French Composition (Demand)

16.0901-304 3 hrs. cr.  
Practice in writing French compositions. Thorough study of grammar, syntax and idiomatic

expressions. Prerequisite: Proficiency level of ADVANCED, or Fren 303.

### Survey of French Literature (Demand)

16.0901-322 3 hrs. cr.  
French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Proficiency level of ADVANCED.

### Seminar in French (Demand)

16.0901-498 1-8 hrs. cr.  
Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

### Independent Study (Demand)

16.0901-499 3 hrs. cr.  
Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

## German (Ger)

### Beginning German I (F, S)

16.0501-101 3 hrs. cr.  
An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.

### Beginning German II (F, S)

16.0501-102 3 hrs. cr.  
A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and to the study of the German speaking cultures. Prerequisite: Proficiency level of NOVICE, or Ger 101.

### Intermediate German I (F, S)

16.0501-203 3 hrs. cr.  
A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Ger 102.

### Intermediate German II (F, S)

16.0501-204 3 hrs. cr.  
A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Ger 203.

### Selected Topics in German (Demand)

16.0501-298 1-8 hrs. cr.  
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

### Readings & Conversation (F, S)

16.0501-301 3 hrs. cr.  
Continued development of the four basic language skills in the target language through

readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Ger 204.

### Readings in Literature & Culture (F, S)

16.0501-302 3 hrs. cr.  
Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Ger 301.

### Seminar in German (Demand)

16.0501-498 1-8 hrs. cr.  
Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

### Independent Study (Demand)

16.0501-499 1-3 hrs. cr.  
Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

## Japanese (Jpn)

### Beginning Japanese I (Demand)

16.0302-101 3 hrs. cr.  
Pronunciation, conversation and grammar. Aural/oral drill.

### Beginning Japanese II (Demand)

16.0302-102 3 hrs. cr.  
Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/oral drill. Prerequisite: Jpn 101.

### Intermediate Japanese I (Demand)

16.0302-203 3 hrs. cr.  
Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.

### Intermediate Japanese II (Demand)

16.0302-204 3 hrs. cr.  
Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.

## Russian (Rus)

### Beginning Russian I (F, S)

16.0402-101 3 hrs. cr.  
Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.

### Beginning Russian II (F, S)

16.0402-102 3 hrs. cr.  
A continuation of 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 and proficiency level of NOVICE.

### Intermediate Russian I (F, S)

16.0402-203 3 hrs. cr.  
Systematic development of communicative skills



# Courses/Foreign Languages

in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 and a proficiency level of NOVICE PLUS.

## Intermediate Russian II (F, S)

16.0402-104 3 hrs. cr.  
A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 and proficiency level of INTERMEDIATE.

## Spanish (Span)

### Beginning Spanish I (F, S)

16.0905-101 3 hrs. cr.  
An introduction to the basic skills of understanding, speaking, reading and writing in Spanish and to the study of the Spanish speaking cultures.

### Beginning Spanish II (F, S)

16.0905-102 3 hrs. cr.  
A continuation of Spanish 101. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures. Prerequisite: Proficiency level of NOVICE, or Span 101.

### Intermediate Spanish I (F, S)

16.0905-203 3 hrs. cr.  
A continuation of Span 102. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Span 102.

### Intermediate Spanish II (F, S)

16.0905-204 3 hrs. cr.  
A continuation of Span 203. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Span 203.

### The Hispanic World Today (S)

16.0905-205 3 hrs. cr.  
A study of Mexico (or Spain), its people and culture against a linguistic and historical background. Examines elements which influence patterns of cultural behavior and popular attitudes in geography, history, politics, socioeconomics and demography as well as the peninsular cultural heritage. Students will spend a minimum of 30 hrs. in a formal study of the country chosen for that particular year followed by a session of seven to 10 days abroad. (In alternate years the course will focus upon either Mexico or Spain.) Taught in English. Students must pay for travel expenses, with specific details available prior to enrollment.

### Selected Topics in Spanish (Demand)

16.0905-298 3 hrs. cr.  
Topics not normally included in another course. Prerequisites are determined by the department and stipulated syllabus.

### Readings & Conversation (F, S)

16.0905-301 3 hrs. cr.  
Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Span 204.

### Readings in Hispanic Literature and Culture (F, S)

16.0905-302 3 hrs. cr.  
Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Span 301.

### Spanish Syntax I (F, Odd)

16.0905-303 2 hrs. cr.  
Spanish grammar review with emphasis on the Spanish verb system. Prerequisite: Proficiency level of ADVANCED, or Span 301.

### Spanish Phonology (F, Even)

16.0905-304 2 hrs. cr.  
Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabication, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Proficiency level of ADVANCED, or Span 301.

### Spanish Syntax II & Composition (S, Even)

16.0905-320 2 hrs. cr.  
Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Proficiency level of ADVANCED, or Span 301.

### Peninsular Literature from *El Cid* to Calderon (F, Even)

16.0905-321 3 hrs. cr.  
Spain's literary history and important representative works and writings from *El Cid* to Calderon. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

### Peninsular Literature from the Romantics to the Present (S, Odd)

16.0905-322 3 hrs. cr.  
Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

### Survey of Spanish-American Literature I (F, Odd)

16.0905-333 3 hrs. cr.  
Survey of Spanish American literature from its beginnings to Marti. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

### Survey of Spanish-American Literature II (S, Even)

16.0905-334 3 hrs. cr.  
Survey of Spanish American literature from Marti to present. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

### The Novelistic Tradition: From Cervantes to the Anti-Realism Tendencies in Modern Fiction (Demand)

16.0905-440 3 hrs. cr.  
Structure, narrative technique and aesthetic concepts underlying prose fiction as seen through Cervantes, Rabelais, Flaubert, Balzac, Dickens, Kafka, Garcia-Marquez and Borges. Conducted in English. Open to non-majors. Can be counted toward a major in English but not as a part of the Core Curriculum requirements. Prerequisites: Eng 101 and 102 or 103.

### Seminar in Spanish Language/Literature (Demand)

16.0905-498 1-3 hrs. cr.  
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Proficiency level of ADVANCED and at least 15 hrs. of upper-division Spanish courses.

### Independent Study (F, S)

16.0905-499 1-3 hrs. cr.  
Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: GPA of 3.0 in the major field and 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.

## Other Languages

### Special Topics in Foreign Languages (Demand)

16.9999-298 1-5 hrs. cr.  
Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well as prerequisites.

### Advanced Topics in Foreign Languages (Demand)

16.9999-498 1-5 hrs. cr.  
Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

## Geography (Geog)

### Regions and Nations (F, S)

45.0701-211 3 hrs. cr.  
Survey of the peoples of the earth and how their



# Courses/Geography, Geology, History

activities are influenced by climate, topography and natural resources.

## Topics in Geography (Demand)

45.0701-298 3 hrs. cr.  
Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

## Political Geography (Demand)

45.0701-311 3 hrs. cr.  
Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

## Economic Geography (Demand)

45.0701-322 3 hrs. cr.  
World commodities and the geographic factors which affect their production and make them significant to the world economy.

## Geography and Culture of Latin America (Demand)

45.0701-412 3 hrs. cr.  
Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

## Geography of the United States and Canada (Demand)

45.0701-422 3 hrs. cr.  
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

## Seminar in Geography (Demand)

45.0701-498 1-2-3 hrs. cr.  
Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.

## Geology (Geol)

### Introduction to Geology (F, Even)

40.0601-110 5 hrs. cr.  
Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be required. Three lectures, two 2-hr. lab per week. Prerequisite: Phys 100.

### Environmental Geology (F, Odd)

40.0601-300 4 hrs. cr.  
An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsi-

dence, mass movements and floods are examined. Prerequisite: Phys 100.

## Studies in Geology (Demand)

40.0601-498 1-3 hrs. cr.  
Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hrs. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: Junior standing, Geol 110 and a minimum GPA of 2.5 in 16 hrs. of science. Permission of instructor required.

## Problems in Geology (Demand)

40.0601-499 1-3 hrs. cr.  
Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

## History (Hist)

### U.S. History Courses

#### United States History 1492-1877 (F, S)

45.0801-110 3 hrs. cr.  
Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

#### United States History 1877 to Present (F, S)

45.0801-120 3 hrs. cr.  
Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

#### Topics in History (Demand)

45.0801-298 3 hrs. cr.  
Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

#### Introduction to Public History (F)

45.0801-305 3 hrs. cr.  
Public history serves the public through training and education of social science students in policy analysis, information gathering and dissemination, preservation, organizational management and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

#### United States Social and Intellectual History (Demand)

45.0801-310 3 hrs. cr.  
Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a

technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

#### Economic History of the United States (F, Even)

45.0801-315 3 hrs. cr.  
Development of the American economy and its related institutions from the early national period to the present.

#### United States History 1877 to Present (Demand)

45.0801-320 3 hrs. cr.  
Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320.

#### The American Frontier (F, Odd)

45.0801-325 3 hrs. cr.  
The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890.

#### History of the American Indian (Demand)

45.0801-330 3 hrs. cr.  
Social, political, diplomatic, military and legal history of the native American society.

#### Diplomatic History of the United States to 1900 (F, Even)

45.0801-335 3 hrs. cr.  
Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

#### Twentieth Century Diplomacy (S, Odd)

45.0801-340 3 hrs. cr.  
An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

#### American Diplomacy, 1945 to Present (F)

45.0801-343 3 hrs. cr.  
An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

#### Age of Jefferson and Jackson (Demand)

45.0801-345 3 hrs. cr.  
Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

#### Civil War and Reconstruction (S)

45.0801-350 3 hrs. cr.  
Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

#### The South (F, Even)

45.0801-355 3 hrs. cr.  
Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.



# Courses/History

## History of Missouri (F, Odd)

45.0801-360 3 hrs. cr.  
Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

## United States Colonial History (Demand)

(Writing Intensive)  
45.0801-365 3 hrs. cr.  
Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.

## Women in U.S. History (S)

45.0801-371 3 hrs. cr.  
A survey of the historical experience of American women from the colonial period to the modern era.

## United States Military Experience 1775 to Present (S)

45.0801-400 3 hrs. cr.  
Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization and technology.

## The United States 1870-1920 (Demand)

45.0801-405 3 hrs. cr.  
United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

## The United States Since 1920 (S, Even)

45.0801-410 3 hrs. cr.  
Impact of politics, diplomacy and economic trends of the United States since 1920.

## Seminar in Historical Research (F, S)

(Writing Intensive)  
45.0801-497 3 hrs. cr.  
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Eng 102 and 6 hrs. upper-division history.

## Seminar in History (F or S)

45.0801-498 3 hrs. cr.  
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

## Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.  
Individualized project directed by the instructor/adviser with approval of department head and school dean. Advanced standing in the major field and a minimum GPA of 3.0 are required.

## European History Courses

### Western Civilization to 1660 (F, S)

45.0801-130 3 hrs. cr.  
Development and progress of western civilization from its origins through the Reformation.

Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

### Western Civilization Since 1660 (F, S)

45.0801-140 3 hrs. cr.  
Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

### Topics in History (Demand)

45.0801-298 3 hrs. cr.  
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

### Nineteenth Century Europe (Demand)

45.0801-369 3 hrs. cr.  
Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism and individual national events.

### Twentieth Century Europe (Demand)

45.0801-370 3 hrs. cr.  
A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.

### English History to 1660 (F, Even)

(Writing Intensive)  
45.0801-375 3 hrs. cr.  
Rise and development of the English people from the Celts through the English Civil Wars. Major topics examined include the Anglo-Saxon and Norman contributions to English civilization, the changing roles of monarch and daily life of various social classes.

### English History Since 1660 (S, Odd)

45.0801-380 3 hrs. cr.  
English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.

### History of Russia to 1796 (F, Odd)

45.0801-387 3 hrs. cr.  
History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.

### History of Russia Since 1796 (S, Even)

45.0801-388 3 hrs. cr.  
History of Russia since 1796 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik

Revolution and Russian life under Communism.

### History of Germany (Demand)

45.0801-390 3 hrs. cr.  
Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.

### Medieval History (F, Odd)

45.0801-420 3 hrs. cr.  
Europe from the end of the Roman Empire to c. 1500. Emphasis on the emergence of the Papacy, manorialism and feudalism, on the development of cities and an urban economy and on intellectual life and artistic expression.

### The Renaissance and the Reformation 1350-1650 (S, Even)

45.0801-425 3 hrs. cr.  
An overview of Europe from 1350 to 1650. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies and the impact of economic change on daily life.

### The Era of the French Revolution and Napoleon (F, Even)

45.0801-435 3 hrs. cr.  
An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic and empire.

### European Intellectual History (S, Even)

45.0801-440 3 hrs. cr.  
Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.

### Seminar in Historical Research (F, S)

(Writing Intensive)  
45.0801-497 3 hrs. cr.  
Topics pertaining to an era or historical problem of special interest to the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

### Seminar in History (F or S)

45.0801-498 3 hrs. cr.  
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

### Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.  
Individualized project directed by the instructor/adviser with approval of the department head and the school dean prior to enrollment. Ad-



## Courses/Math

vanced standing in the major field and a minimum GPA of 3.0 are required.

### East Asian History Courses

#### Topics in History (Demand)

45.0801-298 3 hrs. cr.  
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

#### History of China (F, Even)

45.0801-415 3 hrs. cr.  
Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centuries.

#### History of Japan (Demand)

45.0801-430 3 hrs. cr.  
Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

#### Seminar in Historical Research (F, S)

(Writing Intensive)  
45.0801-497 3 hrs. cr.  
Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

#### Seminar in History (F or S)

45.0801-498 3 hrs. cr.  
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

#### Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.  
Individualized project directed by the instructor/adviser with prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

### Global History Courses

#### Problems in Recent Diplomatic History (F)

45.0801-341 2 hrs. cr.  
Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants.

#### Seminar in Historical Research (F, S)

(Writing Intensive)  
45.0801-497 3 hrs. cr.  
Topics pertaining to an era or historical problem

of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

### Mathematics (Math)

#### Beginning Algebra (F, S)

27.0101-020 3 hrs. cr.  
Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

#### Intermediate Algebra (F, S)

27.0101-030 3 hrs. cr.  
Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". No credit towards baccalaureate degree.

#### Introduction to College Mathematics (F, S)

27.0101-110 3 hrs. cr.  
Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C".

#### Math for Elementary Teachers I (F, S)

27.0101-111 3 hrs. cr.  
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". (Will not meet the Core Curriculum mathematics requirement for non-elementary education majors.)

#### Trigonometry (Demand)

27.0101-112 3 hrs. cr.  
Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: One and one half units of high school algebra, one unit high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C," or permission of instructor.

#### Math for Elementary Teachers II (F, S)

27.0101-120 3 hrs. cr.  
A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

#### College Algebra (F, S)

27.0101-130 3 hrs. cr.  
Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations and the binomial theorem. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on

the Mathematics Placement Test or Math 030 with grade of "C".

#### Finite Mathematics (F, S)

27.0101-131 3 hrs. cr.  
Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: One and one half units of high school algebra and satisfactory score on the Mathematics Placement Test or Math 030 with a grade of "C".

#### Algebra and Trigonometry (F, S)

27.0101-140 5 hrs. cr.  
Equivalent of Math 112 and Math 130. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or permission of instructor. Only two hours credit for students with Math 112 or Math 130 credit.

#### Calculus with Analytic Geometry I (F, S)

27.0101-150 5 hrs. cr.  
Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

#### Calculus with Analytic Geometry II (F, S)

27.0101-250 5 hrs. cr.  
Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C".

#### Calculus with Analytic Geometry III (F, S)

27.0101-260 5 hrs. cr.  
Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C".

#### Fundamentals of Mathematical Thought (S)

27.0101-300 3 hrs. cr.  
Introduction to modern algebra, analysis and proofs; sets, relations, functions, logical development of number systems, cardinality, divisibility, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260.

#### Calculus for the Management and Social Sciences (Demand)

27.0101-302 3 hrs. cr.  
Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130 or Math 131 or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

#### Elementary Statistics (Demand)

27.0501-310 3 hrs. cr.  
Provides a basic statistical background for the



# Courses/Music

various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.

## Problems of Teaching Arithmetic in the Elementary Schools

13.1311-312 3 hrs. cr.  
(See Education 312 for description.) Will not count toward a major in mathematics.

## Differential Equations (S)

27.0101-322 3 hrs. cr.  
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

## Geometry (F, Even)

27.0101-332 3 hrs. cr.  
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250.

## Teaching Mathematics in Secondary Schools (S)

13.1311-339 3 hrs. cr.  
Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

## Abstract Algebra (F, Odd)

27.0101-342 3 hrs. cr.  
Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300.

## Introduction to Numerical Analysis (S, Even)

27.0301-350 3 hrs. cr.  
Error Analysis, solution of polynomial and transcendental equations, co-location polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 110 or higher.

## Linear Algebra (F, Even)

27.0101-351 3 hrs. cr.  
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

## Introduction to Probability (F)

27.0501-361 3 hrs. cr.  
Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260.

## Introduction to Operations Research (F, Odd) (Writing Intensive)

27.0101-371 3 hrs. cr.  
Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260 and computer programming ability.

## Introduction to Advanced Calculus (S, Even)

27.0101-421 3 hrs. cr.  
Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

## Numerical Analysis (S, Odd)

27.0301-431 3 hrs. cr.  
Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 110 or higher.

## Mathematical Models (S, Even)

(Writing Intensive)  
27.0301-452 3 hrs. cr.  
Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 322 and Comp 110 or higher.

## Introduction to Mathematical Statistics (S, Odd)

27.0501-462 3 hrs. cr.  
Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

## Seminar in Mathematics (Demand)

27.9999-498 1-3 hrs. cr.  
For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

## Independent Study (Demand)

27.9999-499 1-3 hrs. cr.  
Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

## Music (Mus)

### Opera or Musical Theatre Performance (S)

50.0903-102,202,302,402 1 hr. cr.  
Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

cal or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

### Sight Singing and Ear Training (S)

50.0903-109 2 hrs. cr.  
Basic skills and concepts needed for sight reading, sight singing, solfège, rhythmic dictation, melodic dictation and harmonic dictation are introduced, studied and applied in aural and notated musical examples. Prerequisite: Mus 111.

### Music Appreciation (F, S)

50.0902-110 3 hrs. cr.  
Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

### Music Theory (F)

50.0904-111 3 hrs. cr.  
Basic fundamentals of music with initiation of harmonic analysis and part-writing. Basic course for music majors; others by consent of instructor.

### Music Theory (S)

50.0904-112 3 hrs. cr.  
Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

### Concert Chorale (F, S)

50.0903-121, 122, 321, 322 2 hrs. cr.  
Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

### Opera and Musical Theatre (F)

50.0903-133 2 hrs. cr.  
History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

### Musical Theatre and Opera (F)

50.0903-135 2 hrs. cr.  
History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last 10 weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

### Jazz Band (F, S)

50.0903-141,142,341,342 1 hr. cr.  
A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instructor.



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tor. Each class may be repeated one time for credit. Corequisite: Mus 191, 391, 192 or 392.

### Orchestra (F, S)

50.0903-151,152,351,352 2 hrs. cr.  
Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated one time for credit.

### Southern Exposure (F, S)

50.0903-161,162,361,362 1 hr. cr.  
Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated one time for credit. Corequisite: Mus 121, 122, 321 or 322.

### Brass Choir (F, S)

50.0903-171,172,371,372 1 hr. cr.  
Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated one time for credit.

### Conducting Techniques (F)

50.0903-182 2 hrs. cr.  
Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 109, Mus 112.

### Marching Band (F)

50.0903-191,391 2 hrs. cr.  
Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

### Concert Band (S)

50.0903-192,392 2 hrs. cr.  
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

### Sight Singing and Ear Training (F)

50.0903-210 2 hrs. cr.  
Sequential course in using the skills and concepts in sight singing and ear training. Sight reading of melodies of increasing difficulty. Ear training emphasis will be in harmonic dictation. Prerequisite: Mus 109.

### Music Theory (F)

50.0904-211 3 hrs. cr.  
Modulation, diatonic, seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Mus 112.

### Music Theory (S)

50.0904-212 3 hrs. cr.  
Secondary dominant chords, augmented triads and sixth chords, advanced modulation, intro-

duction to contemporary techniques. Prerequisite: Mus 211.

### Vocal Diction (Demand)

50.0903-215 2 hrs. cr.  
Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.

### String Techniques (F)

50.0903-231 1 hr. cr.  
Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.

### Brass Techniques (S)

50.0903-232 1 hr. cr.  
Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.

### Percussion Techniques (F)

(Not open to percussion majors)  
50.0903-233 1 hr. cr.  
Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.

### Woodwind Techniques (S)

50.0903-234 1 hr. cr.  
Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.

### Recital Attendance (F, S)

50.0903-240 0 hrs. cr.  
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

### Selected Topics in Music (Demand)

50.099-298 1-3 hrs. cr.  
Study of special topics in music not included in another course. Prerequisite: Permission of instructor.

### Choral Techniques (F)

50.0903-309 2 hrs. cr.  
Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Permission of instructor.

### History of Music (F)

50.0902-311 3 hrs. cr.  
General survey of history of music from Greek period to 18th century. Prerequisite: Mus 212.

### History of Music (S)

50.0902-312 3 hrs. cr.  
From 18th century to the present. Score reading required. Prerequisite: Mus 212.

### Music for the Elementary School (F, S)

13.1312.332 2 hrs. cr.  
Methods of teaching music in the elementary classroom and a study of materials to be used.

### Music for the Elementary Grades (Demand)

13.1312.333 2 hrs. cr.  
Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

### Marching Band Methods (F)

50.0903-411 2 hrs. cr.  
Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band. Corequisite: Mus 191 or 391.

### Form and Analysis (F)

50.0904-420 3 hrs. cr.  
Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212 or permission of instructor.

### Orchestration (S)

50.0904-431 3 hrs. cr.  
Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212 or permission of instructor.

### Music in the Public School (F)

13.1312.432 2 hrs. cr.  
Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems and public relations in music. Prerequisite: Mus 212.

### Advanced Conducting Techniques (F)

50.0903-444 2 hrs. cr.  
Conducting skills, including irregular beat patterns, advance technical problems and methods developed for solving them. Prerequisite: Mus 182.

### Senior Recital

50.0903-450 0 hrs. cr.  
A solo recital is required of all music majors. The recital is to be given within the last year of residency. Corequisite: Mus 407 or 408.

### Seminar in Music (Demand)

50.0999-498 1-3 hrs. cr.  
For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.

### Independent Study (Demand)

50.0499-499 1-3 hrs. cr.  
Structured by the adviser with approval of the department head and school dean. Prerequisite:



# Courses/Paralegal, Philosophy, Physics

site: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by the adviser, department head and school dean.

## Applied Music -- (Private Lessons)

Major in: Brass, Keyboard, Percussion, String, Woodwind and Voice. All major applied music offerings may be repeated one time for credit.

50.0903-207 2 hrs. cr.  
50.0903-208 2 hrs. cr.  
50.0903-407 2 hrs. cr.  
50.0903-408 2 hrs. cr.

Elective in the six areas listed above under major.

50.0903-103 1 hr. cr.  
50.0903-104 1 hr. cr.  
50.0903-105 1 hr. cr.  
50.0903-106 1 hr. cr.  
50.0903-203 1 hr. cr.  
50.0903-204 1 hr. cr.  
50.0903-305 1 hr. cr.  
50.0903-306 1 hr. cr.  
50.0903-107 2 hrs. cr.  
50.0903-108 2 hrs. cr.  
50.0903-307 2 hrs. cr.  
50.0903-308 2 hrs. cr.  
Elective in Jazz Improvisation  
50.0903-104 1 hr. cr.  
50.0903-204 2 hrs. cr.

## Paralegal (PLS)

### Introduction to Legal Assistance (F)

22.0103-201 3 hrs. cr.  
American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

### Topics in Paralegal Studies (Demand)

22.0199-298 3 hrs. cr.  
Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

### Business Law I (F, S)

06.0101-301 3 hrs. cr.  
(See GB 301).

### Business Law II (F, S)

06.0101-302 3 hrs. cr.  
(See GB 302).

### Legal Research (F, Odd)

22.0199-302 3 hrs. cr.  
Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

### Property (S, Odd)

22.0199-311 3 hrs. cr.  
Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as deeds, contracts and leases.

### Civil Litigation (S, Even)

22.0199-312 3 hrs. cr.  
Process of civil litigation from filing to appeal

including rules for instituting and conducting lawsuits before federal and state courts, rules of evidence and procedure and the preparation of pertinent legal forms.

### Family Law (S, Even)

22.0199-320 3 hrs. cr.  
Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the preparation of pertinent legal forms.

### Wills, Trusts and Probate (F, Even)

22.0199-401 3 hrs. cr.  
Law of wills, trusts and intestate succession; includes analysis of the administration, probate of estates and the preparation of pertinent legal forms.

### Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.  
(See PSc 431).

### Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.  
(See PSc 432).

### Internship (Demand)

22.0119-491 3 hrs. cr.  
An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials), as approved by department head and school dean.

### Senior Seminar (Demand)

22.0119-498 3 hrs. cr.  
Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

### Independent Study

22.0119-499 1-2-3 hrs. cr.  
Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0.

## Philosophy (Phil)

### Critical Thinking

38.0101-140 3 hrs. cr.  
Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

### Introduction to Philosophy

38.0101-201 3 hrs. cr.  
Comparative survey of major types of philosophy and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2C on page 35.

### Ethics

38.0101-212 3 hrs. cr.  
Exploration of the problems of value and personal moral standards, comparative survey of major

ethical systems and evaluation of the chief ethical struggles in contemporary society.

### Topics in Philosophy

38.0101-298 3 hrs. cr.  
Studies in a variety of philosophical subjects. Topic open.

### Ancient Philosophy

38.0101-301 3 hrs. cr.  
Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

### Modern Philosophy

38.0101-302 3 hrs. cr.  
A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

### Biomedical Ethics

38.0101-312 3 hrs. cr.  
A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources and medical experimentation.

### Comparative Religion

38.0101-320 3 hrs. cr.  
A philosophical and historical survey, emphasizing the world's major living religions.

### Philosophy of Science

38.0101-420 3 hrs. cr.  
Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

### Seminar in Philosophy

38.0101-498 3 hrs. cr.  
Comprehensive analysis of selected topics in philosophy. For upper division students.

### Independent Study

38.0101-499 1-3 hrs. cr.  
Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.

## Physics (Phys)

### Fundamentals of Physical Science (F, S)

40.0101-100 5 hrs. cr.  
Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of



## Courses/Political Science

nature to specific problems. Lecture and demonstration periods. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

### Physical Science for Elementary Teachers

40.0101-101 5 hrs. cr.  
Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods, one 2-hr. lab per week. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

### Physics for Teachers 7-9 (Summers)

40.0801-120 4 hrs. cr.  
Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2-hr. lab recitation class per week. Prerequisite: Math 130 or equivalent.

### Essential Skills for Physics (F, S)

40.0801-140 3 hrs. cr.  
Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Recommended for students who have not had a high school physics course or who feel their background in physics is inadequate. Three hrs. lecture per week. Prerequisite: Math 140.

### Elementary College Physics I (F, S, SS)

40.0801-151 5 hrs. cr.  
Mechanics, properties of matter, heat, wave motion, sound and electrical circuits. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

### Elementary College Physics II (S)

40.0801-152 3 hrs. cr.  
Magnetism, optics, relativity, radioactivity, nuclear reactions and further study of mechanics including rotational dynamics. Two hrs. lecture, one 2-hr. lab per week. Prerequisite: Phys 151.

### Introduction to Meteorology

40.0401-180 3 hrs. cr.  
Principles basic to the understanding of weather and climate. Three lectures per week. Prerequisite: Phys 100 or equivalent. (Does not count toward a physics major.)

### General Physics I (F, S)

40.0801-250 5 hrs. cr.  
Introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150 and Phys 140 strongly recommended.

### General Physics II (F, S)

40.0801-260 5 hrs. cr.  
Electricity, magnetism, waves and geometrical

and physical optics. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Phys 250 and Math 250.

### Selected Topics in Physical Science (F, S)

40.0101-298 1-3 hrs. cr.  
Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

### Astronomy (Demand)

40.0201-300 3 hrs. cr.  
The solar system. Kepler's laws, celestial coordinates and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

### Modern Physics (F)

40.0801-301 4 hrs. cr.  
Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

### Statics (S, S)

40.0801-312 3 hrs. cr.  
Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 250.

### Classical Mechanics (S, Odd)

40.0801-322 3 hrs. cr.  
Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hrs. lecture per week. Prerequisite: Phys 250, Corequisite: Math 322 or permission of instructor.

### Thermal Physics (S)

40.0801-341 4 hrs. cr.  
Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Math 260 and Phys 250.

### Electronic Circuits (S)

40.0801-372 4 hrs. cr.  
Ohm's law, Kirchhoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state ac circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260, Corequisite: Math 260.

### Intermediate Physics Laboratory (Demand)

(Writing Intensive)  
40.0801-381 3 hrs. cr.  
Experiments in classical and modern physics,

including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

### Electricity and Magnetism (F, Odd)

40.0801-401 4 hrs. cr.  
Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 260.

### Quantum Mechanics (Demand)

40.0801-452 3 hrs. cr.  
Time independent Schrodinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multi-electron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

### Selected Topics in Physics and Engineering (Demand)

40.0801-480 3 hrs. cr.  
One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

### Seminar (F, S)

40.0801-498 1-3 hrs. cr.  
Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

### Independent Study (F, S)

40.0801-499 1-3 hrs. cr.  
Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

## Political Science (PSc)

### Government: U.S., State & Local (F, S)

45.1001-120 3 hrs. cr.  
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees.

### Topics in Political Science (Demand)

45.1001-298 3 hrs. cr.  
Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each



# Courses/Sociology

semester. Students are encouraged to suggest possible course topics to the political science faculty.

## Introduction to Political Science Methods (Demand)

45.1001-300 3 hrs. cr.  
The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in non-library types of research projects.

## Political Parties and Elections (F, Even)

45.1001-301 3 hrs. cr.  
Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

## Public Opinion and Pressure Groups (S, Odd)

45.1001-302 3 hrs. cr.  
Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

## Law, Society and the Judicial Process (Demand) (Writing Intensive)

45.1001-310 3 hrs. cr.  
American legal system with special attention to the organization, methods, processes and behaviors of the judiciary.

## The American Presidency (F, Odd)

45.1001-311 3 hrs. cr.  
Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

## The Legislative Process (S, Even)

45.1001-312 3 hrs. cr.  
Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the United States Congress.

## State Government (S, Even)

45.1001-320 3 hrs. cr.  
General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

## International Relations (F, Even)

45.0901-321 3 hrs. cr.  
Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

## International Law (S, Odd)

45.0901-322 3 hrs. cr.  
Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

## Comparative Government: Europe (F, Odd)

45.1001-331 3 hrs. cr.  
An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

## Comparative Government: Latin America (S, Even)

45.1001-332 3 hrs. cr.  
Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

## Municipal Government (F, Odd)

45.1001-341 3 hrs. cr.  
Structure, legal status, functions and organization of city, town and village government in the United States.

## Political Theory (F, Odd)

45.1001-411 3 hrs. cr.  
Selected Western political philosophies from early recorded history through the present time.

## Contemporary Political Thought (S, Even)

45.1001-412 3 hrs. cr.  
Twentieth century political ideas.

## Public Administration (Demand)

45.1001-421 3 hrs. cr.  
Administrative aspects of government; surveys the major sub-fields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law. Prerequisite: Junior standing or consent of instructor.

## Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.  
Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.

## Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.  
Legal issues concerning the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process and equal protection clauses and the rights of the accused in criminal cases.

## Internship in Political Science (Demand)

45.1001-496 3 to 8 hrs. cr.  
Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.

## Seminar in Political Science (Demand)

(Writing Intensive)  
45.1001-498 3 hrs. cr.  
Specialized knowledge and/or current research

in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

## Independent Study (F, S)

45.1001-499 1-2-3-4 hrs. cr.  
For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

## Sociology (Soc)

### Introduction to Sociology (F, S)

45.1101-110 3 hrs. cr.  
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

### Physical Anthropology and Archaeology (F)

45.1101-155 3 hrs. cr.  
Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

### Social Problems (F, S)

45.1101-210 3 hrs. cr.  
Causes and consequences of economic, political and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc 110.

### Marriage and Family (F)

45.1101-221 3 hrs. cr.  
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.

### The Sociology of Death and Dying (F)

45.1101-291 3 hrs. cr.  
A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.

### Topics in Sociology (Demand)

45.1101-298 3 hrs. cr.  
Special sociology topics of current interest. Subjects and instructors may vary each semester.



# Courses/Sociology

Students are encouraged to submit areas of interest to the social science department.

**Computer Applications in the Social Sciences (S)**  
45.1101-300 3 hrs. cr.  
An analysis of computers and their applications in the social sciences. Focus on pre-existing software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc 432.

**Sociology of Religion (F)**  
45.1101-301 3 hrs. cr.  
Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

**Sociology of Aging (S)**  
45.1101-306 3 hrs. cr.  
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

**Multi-Cultural Aging (F)**  
45.1101-309 3 hrs. cr.  
An analysis of older people in different cultures and how the normative structure of each culture creates variation within the aged. Roles the elderly play in day-to-day life and how their positions influence intergenerational relationships will be examined. Emphasis will be placed on cultural groups within the United States and select groups in other countries. Prerequisite: Soc 110.

**Social Stratification (F)**  
(Writing Intensive)  
45.1101-311 3 hrs. cr.  
Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.

**Juvenile Delinquency (S)**  
45.1101-312 3 hrs. cr.  
Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs and the juvenile justice and corrections system. Prerequisite: Soc 110.

**Sociology of Work and Leisure (S)**  
45.1101-322 3 hrs. cr.  
Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

**Introduction to Social Work (F)**  
45.1101-331 3 hrs. cr.  
Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

**Social Work Practice (S)**  
45.1101-332 3 hrs. cr.  
Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.

**Social Psychology (F)**  
42.1601-341 3 hrs. cr.  
(See Psy 341)

**Comparative Cultures (S)**  
45.1101-342 3 hrs. cr.  
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary pre-industrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or 155 or consent of instructor.

**Criminology (F)**  
45.1101-351 3 hrs. cr.  
Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

**Sociology of Medicine (S)**  
45.1101-354 3 hrs. cr.  
A review of certain sociological data which affect people's health status, health care and health outlook. Focus on aging, social stratification, demographics and economic issues relevant to health status. A review of the history, change and cross cultural comparisons of health care. Prerequisite: Soc 110.

**The Study of Populations (F)**  
45.1101-361 3 hrs. cr.  
Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and in-

dependent research data. Various population theories are applied to national and world situations. Concepts of overpopulation, minority groups and aging are analyzed. Prerequisite: Soc 110.

**Deviant Behavior (S)**  
45.1101-362 3 hrs. cr.  
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

**Minority Groups and Race Relations (S)**  
45.1101-382 3 hrs. cr.  
A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110 or consent of instructor.

**Penology and Corrections (F)**  
45.1101-391 3 hrs. cr.  
Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.

**The Community - Rural and Urban (S)**  
(Writing Intensive)  
45.1101-402 3 hrs. cr.  
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic and subcultural communities and how these intertwine in contemporary societies. Prerequisite: Soc 110.

**Sociological Research Methods (F)**  
45.1101-431 3 hrs. cr.  
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.

**Mass Society and Social Movements (F)**  
45.1101-445 3 hrs. cr.  
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

**Sociological Theory (S)**  
45.1101-482 3 hrs. cr.  
Classical and contemporary theory placed in



# Courses/Theatre

historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

## Internship in Sociology (Demand)

45.1101-496 1-8 hrs. cr.  
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee.

## Seminar in Sociology (Demand)

45.1101-498 3 hrs. cr.  
For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue in-depth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

## Independent Study (Demand)

45.1101-499 1-2-3 hrs. cr.  
Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

## Theatre (Th)

### Theatre Performance (F, S, S)

50.0501-101,102,201,202,301,302,401,402 1 hr. cr.  
The performance of a role, service as a designer or stage manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

### Theatre Appreciation (F, S, S)

50.0501-110 3 hrs. cr.  
Introduction to the what, why, how and who of theatre. Sessions deal with dramatic form, style and structure; the contributions of various theatre artists; and interpretation and evaluation of plays through scripts and live and taped performances. Provides knowledge and experience for personal enjoyment and evaluation of theatre art. Satisfies 3 semester hours of Core Curriculum requirement in humanities and fine arts, Area 2A or 2C.

### Theatre Laboratory (F, S)

50.0501-121,122,221,222,321,322 2 hrs. cr.  
A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a week.

### Theatre Technology (S, Even)

50.0501-142 3 hrs. cr.  
Hardware and tool usage and technical drawing

as applied to theatre. The use of electricity, sound and electronics in the theatre. Stage rigging.

### Oral Interpretation (F, Odd)

50.0501-212 3 hrs. cr.  
Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

### Speech for Stage (F, Odd)

50.0501-231 3 hrs. cr.  
Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

### Costume Technology (S, Odd)

50.0405-232 3 hrs. cr.  
Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dyeing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

### Stage Makeup (F, Odd)

50.0501-233 1 hr. cr.  
Basic techniques in design and application of stage makeup. Surveys categories of professional makeup techniques as well as sources and costs of material. Two class hrs. in sequence.

### Acting I (S, Even)

50.0501-241 3 hrs. cr.  
Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

### Theatre Movement I (Demand)

50.0501-242 1 hr. cr.  
Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of non-verbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1-hr. labs per week.

### Summer Theatre Production (Demand)

50.0501-250 1-6 hrs. cr.  
Students serve as cast and crew members for a summer production. Practical theatre experience in acting, design and construction of all areas, plus theatre management.

### Audition Techniques for the Actor (S, Odd)

50.0501-251 1 hr. cr.  
Techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

### Exploration in Theatre (Demand)

50.0501-298 3 hrs. cr.  
Concentrated study on a variety of selected

theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

### Stage Management (F, Even)

50.0501-311 2 hrs. cr.  
Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.

### Stage Lighting (Demand)

50.0499-320 3 hrs. cr.  
Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisite: Th 142.

### History of the Theatre (F, Even)

(Writing Intensive)  
50.0501-331 3 hrs. cr.  
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.

### History of the Theatre (S, Odd)

50.0501-332 3 hrs. cr.  
Plays, playwrights and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

### Acting II (F, Even)

50.0501-341 3 hrs. cr.  
The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.

### Directing I (F, Even)

50.0501-351 3 hrs. cr.  
A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis and mounting a production. Scene directing. Prerequisite: Th 241.

### History of Costume (F, Odd)

50.0405-361 3 hrs. cr.  
Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. Emphasis is on the social and economic reasons which caused styles to change. (Recommended as prerequisite for Stage Costume Design.)

### Stage Costume and Design (S, Even)

50.0405-362 3 hrs. cr.  
Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume.



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## Courses/Theatre

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**Directing II (S, Odd)**

50.0501-372

3 hrs. cr.

Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.

**Acting III (S, Odd)**

50.0501-422

3 hrs. cr.

Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.

**Creative Dramatics (F, Odd)**

50.0501-431

3 hrs. cr.

Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.

**Stage Design (F, Odd)**

50.0405-441

3 hrs. cr.

Foundations of design. Sketching, rendering and perspective techniques. Communications between designers and directors. Prerequisite: Th 142.

**Theatre Studies (Demand)**

50.0501-498

3 hrs. cr.

Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

**Independent Study in Theatre (F, S)**

50.0501-499

1-3 hrs. cr.

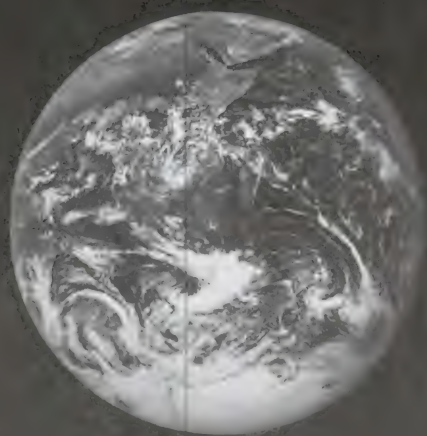
Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.







**THE  
SCHOOL  
OF  
BUSINESS  
ADMINISTRATION**





# School of Business Administration

## School Dean

James M. Gray  
Matthews Hall 302, 625-9319

## Degrees and Majors

### Bachelor of Science in Business Administration

Accounting  
Economics and Finance  
General Business  
Management  
Marketing

### Bachelor of Science in Education

Business Education as a single teaching field  
Business Education as one of two teaching fields

### Bachelor of Science

Management Technology

### Associate of Science

Accounting  
General Business  
Office Administration

### One-year Certificate of Achievement

Secretarial Science  
Concentration  
Entrepreneurship

## Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

## Objectives

The objectives of the School of Business Administration are:

1. to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates;

2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

## Student Organizations

The **National Association of Accountants Student Affiliate Organization** is open to accounting students who seek association with practicing accountants. Students may attend regular meetings of the Joplin Tri-State chapter, as well as monthly student group meetings.

**Future Secretaries Association** is open to all students with an interest in office administration and business education and is sponsored by Professional Secretaries International. Students are involved in a variety of service projects.

**Pi Omega Pi** is an honorary business education fraternity open to students with three semesters or 15 hours credit in business and education and a 3.0 grade point average.

**Omicron Delta Epsilon** is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses.

**Phi Beta Lambda** is based on a set of goals which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

**Students in Free Enterprise (SIFE)** is a non-profit corporation organized to promote the free enterprise system. The group has

participated in national competitions, finishing as high as second on two different occasions.

**Financial Management Association** is open to all economics and finance majors and has a National Honor Society designation for those economics and finance majors who have a cumulative GPA of 3.25 and at least six hours in finance.

## Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

### The Southern Business and Economic Review

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

### Small Business Institute

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

### Business and Economic Lecture Series

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

### Management Development Institute

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing



# Accounting

and/or coordinating various seminars for the local businesses.

## Center for Entrepreneurship

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

## Business Core Requirements

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major:

## Business Administration Core Requirements

	Semester	Hours
Acct 201 Prin of Accounting I	3	
Acct 202 Prin of Accounting II	3	
Econ 201 Prin of Economics-Macro	3	
Econ 202 Prin of Economics-Micro	3	
MM 237 Managerial Data Processing	3	
GB 301 Business Law I	3	
GB 320 Business Comm	3	
GB 321 Business Statistics I	3	
MM 300 Prin of Marketing	3	
MM 350 Prin of Management	3	
Econ 350 Financial Management	3	
MM 452 Business Policy	3	
Advanced Business Elective*	3	
<b>Total Business Core</b>		<b>39</b>

\*Must be selected in consultation with adviser from 300 or 400 level courses in School of Business Administration. May not be "double counted" as part of major requirements. Mathematics - All candidates for the B.S.B.A. degree must complete Mathematics 131, Finite Mathematics, as their Core Curriculum mathematics course.

## Minor in Business:

Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
MM 237 Managerial Data Processing	3
Econ 202 Prin of Economics-Micro*	3
Econ 350 Financial Management	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3
<b>Total for Minor</b>	<b>21</b>

\*Econ 201 should be taken as a Core Curriculum requirement.

## Accounting

**Faculty** Cunningham, Finke, Goode, Paapanen, Rohrer, Shaver

The major in accounting leads to the B.S.B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to enter any area of the accounting profession and to sit for the Certified Public Accountant, or other professional certification examination.

Students planning to sit for the C.P.A. or other professional certification examination and those planning to attend graduate school should consult with their adviser early in their academic program in order to assure that all required courses are taken.

The A.S. accounting program of study is designed to prepare the student for book-keeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

## Bachelor of Science in Business Administration with an Emphasis in Accounting

	Semester	Hours
<b>Core Curriculum Requirements (page 35)</b>		<b>51</b>
<b>Business Core Requirements</b>		<b>39</b>
<b>Accounting Emphasis</b>		<b>23</b>
Acct 310 Cost Accounting	3	
Acct 312 Intermediate Accounting I	4	
Acct 322 Intermediate Accounting II	4	
Acct 375 Tax Accounting I	3	
Acct 402 Advanced Accounting	3	
Acct 411 Auditing	3	
Advanced Accounting Elective (must be chosen with adviser approval)	3	
<b>Electives 15</b>		<b>128</b>

## Associate of Science with a Concentration in Accounting

	Semester	Hours
<b>Core Curriculum Requirement</b>		<b>25-26</b>
<b>Accounting Concentration</b>		<b>40</b>
GB 320 Business Communications	3	
GB 115 Business Math/ Microcomputers	3	
Acct 201 Prin of Accounting I	3	
Acct 202 Prin of Accounting II	3	
Acct 312 Intermediate I	4	
Econ 201 Prin of Economics-Macro	3	

Econ 202 Prin of Economics-Micro	3
MM 237 Managerial Data Processing	3
Acct 310 Cost	3
MM 350 Prin of Management	3
GB 301 Business Law I	3
Acct 375 Tax Acct I	3
Elective selected from:	3
Acct 411 Auditing	
Acct 421 Governmental and Non-profit Acct	
GB 302 Business Law II	
GB 321 Business Statistics	

65-66

## Suggested Order of Study

**Bachelor of Science in Business Administration**  
Major Code 0502  
**Accounting Emphasis**

### Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>

### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Psy 100 Fund of Phys Sci]	5
CORE [Comm 100 Oral Comm]	3
CORE [Psy 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	<b>15</b>

### Sophomore Year

1st Semester	
Acct 201 Prin of Accounting I	3
CORE [Econ 201 Prin of Economics-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	<b>15</b>

### 2nd Semester

Acct 202 Prin of Accounting II	3
Econ 202 Prin of Economics-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	<b>15</b>

### Junior Year

1st Semester	
Acct 312 Intermediate Accounting I	4
Acct 310 Cost Accounting	3
GB 301 Business Law I	3
MM 350 Prin of Management	3
MM 300 Prin of Marketing	3
	<b>16</b>



# Economics and Finance

2nd Semester	
Acct 322 Intermediate Accounting II	4
Acct 375 Tax Accounting I	3
GB 320 Business Comm	3
GB 321 Business Statistics	3
Advanced Business Elective (GB 302 strongly recommended)	3

## Senior Year

1st Semester	
Acct 411 Auditing	3
Econ 350 Financial Management	3
CORE [International Cultural Studies] (GB 310 strongly recommended)	3
CORE [Humanities and Fine Arts Elective] (See Core requirements, page 35)	3
Electives	6

2nd Semester	
Acct 402 Advanced Accounting	3
Advanced Accounting Elective (Must be selected with adviser approval)	3
MM 452 Business Policy	3
Electives	8

## Associate of Science Major Code 5002 Accounting Concentration

### Freshman Year

1st Semester		Hours
Course		
Acct 201 Prin of Accounting I	3	
CORE [Eng 101 Comp I]	3	
CORE [PSc 120 or Hist 110]	3	
GB 115 Business Math/Micro	3	
CORE [Math 30 or higher]	3	
CORE [HPER 103 Lifetime Wellness]	2	

2nd Semester	
Acct 202 Prin of Accounting II	3
CORE [Psy 100 or Soc 110]	3
CORE [Comm 100 Oral Comm]	3
CORE [Art 110, Mus 110, Th 110, Literature or Phil 201]	3
GB 320 Business Comm	3
CORE [HPER 101 Physical Activity]	1

### Sophomore Year

1st Semester	
Acct 312 Intermediate Accounting I	4
GB 237 Managerial Data Processing	3
GB 301 Business Law I	3
CORE [Bio 110 or Phys 100]	4-5
CORE [Econ 201 Prin of Economics-Macro]	3

2nd Semester	
Acct 375 Tax Accounting I	3

MM 350 Prin of Management	3
Econ 202 Prin of Economics-Micro	3
Acct 310 Cost Accounting	3
Business Elective (Acct 411, Acct 421, GB 302, GB 321)	3

## Economics and Finance

**Faculty** Bradshaw, R. C. Brown, Eberhardt, Jaswal, La Near, Larson, Leitle, Marion, Miller, Rawlins

The B.S.B.A. economics and finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government and other public and private sector positions, as well as for graduate study.

## Bachelor of Science in Business Administration with an Emphasis in Economics and Finance

Core Curriculum Requirements (page 35)	51
Business Core	39
Economics and Finance Major:	18

Econ 300 Money and Banking	3
Econ 401 Microeconomic Analysis	3
Econ 402 Macroeconomic Analysis	3
Econ 411 Investments	3
Advanced Econ Elective	6
(Must be selected in consultation with adviser from Econ courses numbered 300 or above including Econ 415.)	
Electives	20

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## Suggested Order of Study

**Bachelor of Science in Business Administration**  
Major Code 0504  
**Economics and Finance Emphasis**

### Freshman Year

1st Semester	
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1

2nd Semester	
CORE [Eng 102 Comp II]	3
CORE [Phys 100 Fund of Phys Sci]	5

CORE [Comm 100 Oral Comm]	3
CORE [Psy 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1

15

### Sophomore Year

1st Semester	
Acct 201 Prin of Accounting I	3
CORE [Econ 201 Prin of Economics-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3

15

### 2nd Semester

Acct 202 Prin of Accounting II	3
Econ 202 Prin of Economics-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3

15

### Junior Year

1st Semester	
Econ 300 Money and Banking	3
Econ 401 Microeconomic Analysis	3
GB 301 Business Law I	3
MM 350 Prin of Management	3
MM 300 Prin of Marketing	3

15

### 2nd Semester

Econ 402 Macroeconomics Analysis	3
Econ 350 Financial Management	3
GB 320 Business Comm	3
GB 321 Business Statistics I	3
Advanced Business Elective (Must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)	3
Elective	3

18

### Senior Year

1st Semester	
Econ 411 Investments	3
Advanced Elective in Econ (Selected in consultation with faculty adviser from courses numbered 300 or above)	3
CORE [International Cultural Studies] (GB 310 strongly recommended)	3
CORE [Humanities and Fine Arts Elective]	3
(See Core Curriculum, page 35)	

Electives	6
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18

### 2nd Semester

MM 452 Business Policy	3
Econ Electives	13

16

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# Entrepreneurship/General Business

## Entrepreneurship

Faculty Bradshaw, Kleindl

A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business start-ups. This concentration prepares the students to start their own businesses.

### Requirements for a Concentration in Entrepreneurship:

	Semester Hours
Ent 201 Entrepreneurship - Developing a Business Plan	1
Ent 202 Entrepreneurship - Business Opportunities	1
Ent 203 Entrepreneurship - Legal Aspects	1
Ent 204 Entrepreneurial Financing and Information - Initial Capitalization	1
Ent 205 Entrepreneurial Financing and Information - Cash Flow Budgeting	1
Ent 206 Entrepreneurial Financing and Information - Microcomputer Applications	1
Ent 207 Accounting for the New Venture - Procedures	1
Ent 208 Accounting for the New Venture - Records	1
Ent 209 Accounting for the New Venture - Taxation	1
Ent 210 Managing the Small Business - The Management Process	1
Ent 211 Managing the Small Business - Strategic Planning and Organizing	1
Ent 212 Managing the Small Business - Human Relations	1
Ent 213 Marketing the Small Business - Promotion	1
Ent 214 Marketing the Small Business - Pricing	1
Ent 215 Marketing the Small Business - Merchandise/Inventory	1

15

## General Business

Faculty Bradshaw, Compton, Cragin, Culwell, Finke, Grim, Johnson, Kleindl, Leitle, Miller, Rusley

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

## Bachelor of Science in Business Administration with an Emphasis in General Business

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Business Core (page 103)</b>	<b>39</b>
<b>General Business Emphasis:</b>	<b>18</b>
Acct 325 Managerial Acct	3
Econ (selected from 300, 302, 312, 322, 330, 401, 411, 412, 415)	3
MM (selected from 352, 410, 412, 431, 441)	3
MM (selected from 312, 321, 401, 412, 432, 470)	3
MM 337 Management Information Systems	3
Advanced Business Elective (must be selected with adviser consultation and approval)	3
<b>Electives</b>	<b>20</b>
	<b>128</b>

## Associate of Science in General Business

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>25-26</b>
<b>General Business Concentration</b>	<b>27</b>
GB 115 Business Math/Micro	3
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
GB 301 Business Law I	3
GB 302 Business Law II	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3
<b>Business Electives</b>	<b>12</b>
<b>(Must be selected with approval of faculty adviser)</b>	<b>64-65</b>

## Suggested Order of Study

Bachelor of Science in Business Administration  
Major Code 0501

### General Business Emphasis

#### Freshman Year

	1st Semester	
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		<b>16</b>

#### 2nd Semester

CORE	[Eng 102 Comp I]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Communications]	3
CORE	[Pys 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		<b>15</b>

#### Sophomore Year

	1st Semester	
Acct 201	Prin of Acct I	3
CORE	[Econ 201 Prin of Economics-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th 110 )]	3
CORE	[Hist 110 American History]	3
		<b>15</b>

#### 2nd Semester

Acct 202	Prin of Acct II	3
Econ 202	Prin of Economics-Macro	3
CORE	[Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		<b>15</b>

#### Junior Year

	1st Semester	
Acct 325	Managerial Acct	3
MM 337	Management Information Systems	3
GB 301	Business Law I	3
MM 350	Prin of Management	3
MM 300	Prin of Marketing	3
		<b>15</b>

#### 2nd Semester

2nd Semester		
Advanced Elective in Econ/Fin		3
(Must be selected from Econ 300, 302, 312, 322, 330, 401, 402, 411, 412 or 415)		
Advanced Elective in Management		3
(Must be selected from MM 352, 410, 412, 431, or 441)		
GB 320	Business Comm	3
GB 321	Business Statistics	3
Advanced Business Elective (Must be selected in consultation with adviser from courses numbered 300 or above within the School of Business Administration)		3
Electives		3
		18

#### Senior Year

1st Semester		
	Advanced Elective in Marketing	3
	(Must be selected from MM 312, 321, 401, 412, 432 or 470)	
Econ 350	Financial Management	3
CORE	[International Cultural Studies] (GB 310 Strongly recommended)	3
CORE	[Humanities and Fine Arts] (See Core Curriculum Requirements, page 35)	3
Electives		6
		18



# Management/Marketing

2nd Semester		
Advanced Business Elective	3	
(Must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)		
MM 452 Business Policy	3	
Electives	10	
	16	
	128	

**Associate of Science**  
Major Code 5001  
**General Business Concentration**

## Freshman Year

1st Semester		
Course	Hours	
Acct 201 Prin of Accounting I	3	
CORE [Eng 101 Comp I]	3	
GB 115 Business Math/Micro	3	
CORE [Psy 100 or Soc 110]	3	
CORE [Math (30 or above)]	3	
CORE [HPER 103 Lifetime Wellness]	2	
	17	

2nd Semester		
Acct 202 Prin of Accounting II	3	
CORE [Econ 201 Prin of Economics-Macro]	3	
CORE [Hist 110 or PSc 120]	3	
CORE [Comm 100 Oral Comm]	3	
CORE [Art 110, Mus 110, Th 110, Literature or Phil 201]	3	
CORE [HPER 101 Physical Activity]	1	
	16	

## Sophomore Year

1st Semester		
Business Electives	6	
(Must be selected with adviser approval)		
GB 301 Business Law I	3	
MM 350 Prin of Management	3	
Econ 202 Prin of Economics-Micro	3	
	15	

2nd Semester		
MM 300 Prin of Marketing	3	
Business Electives	6	
(Must be selected with adviser approval)		
CORE [Bio 101 or Phys 100]	4-5	
GB 302 Business Law II	3	
	16-17	

## Management

**Faculty** Bell, Blades, Bradshaw, Gray, Johnson, Marion, Miller, Stevens, Vernon

The B.S.B.A. degree with an emphasis in management is designed to prepare the graduate for entry level positions of responsibility in both the private and public sectors.

## Bachelor of Science in Business Administration with an Emphasis in Management

Semester Hours  
**Core Curriculum Requirements (page 35)** 51

**Business Core Requirement** 39

**Management Emphasis** 18

MM 337 Management Information Systems	3
MM 352 Personnel	3
MM 431 Operations	3
MM 441 Organizational Behavior	3
Acct 325 Managerial Acct	3
Advanced Elective (MM 410, 411 or 412 strongly recommended)	3
<b>Electives</b>	20
	128

## Suggested Order of Study

**Bachelor of Science in Business Administration**  
Major Code 0508  
**Management Emphasis**

### Freshman Year

1st Semester		
Course	Hours	
CORE [Eng 101 Comp I]	3	
CORE [Math 131 Finite Math]	3	
CORE [PSc 120 Gov't: U.S., State, Local]	3	
CORE [Bio 101 General Biology]	4	
CORE [HPER 103 Lifetime Wellness]	2	
Psy 120 College Orientation	1	
	16	

2nd Semester		
CORE [Eng 102 Comp II]	3	
CORE [Phys 100 Fund of Phys Sci]	5	
CORE [Comm 100 Communications]	3	
CORE [Pys 100 or Soc 110]	3	
CORE [HPER 101 Physical Activity]	1	
	15	

### Sophomore Year

1st Semester		
Acct 201 Prin of Acct I	3	
CORE [Econ 201 Prin of Econ-Macro]	3	
MM 237 Managerial Data Processing	3	
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3	
CORE [Hist 120 U.S. History 1877 - Present]	3	
	15	

2nd Semester		
Acct 202 Prin of Acct II	3	
Econ 202 Prin of Econ-Micro	3	
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3	
CORE [Hist 120 U.S. History 1877 - Present]	3	
Elective	3	
	15	

## Junior Year

1st Semester		
MM 337 Management Info Systems	3	
Acct 325 Managerial Accountings	3	
GB 301 Business Law I	3	
MM 350 Prin of Management	3	
MM 300 Prin of Marketing	3	
	15	

2nd Semester		
MM 352 Personnel Management	3	
Econ 350 Financial Management	3	
GB 320 Business Comm	3	
GB 321 Business Statistics	3	
Advanced Business Elective	3	
(Must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration) Elective		
	3	
	18	

## Senior Year

1st Semester		
MM 431 Operations Management	3	
MM 441 Organizational Behavior	3	
CORE [International Cultural Studies] (GB 310 Strongly recommended)	3	
CORE [Humanities and Fine Arts Elective] (See Core Curriculum Requirements, page 35)	3	
Electives	6	
	18	

2nd Semester		
Advanced Elective	3	
(Must be selected in consultation faculty adviser: MM 410, 411 or 412 strongly recommended)		
MM 452 Business Policy	3	
Electives	10	
	16	
	128	

## Marketing

**Faculty** Bell, Blades, Bradshaw, Johnson, Marion, Miller

The B.S.B.A. with the marketing emphasis is intended to prepare graduates for positions in retailing, sales management, promotion, research and general administration.

## Bachelor of Science in Business Administration with an Emphasis in Marketing

Semester Hours		
<b>Core Curriculum Requirements</b>	51	
<b>Business Core Requirements</b>	39	
<b>Marketing Emphasis</b>	18	
MM 312 Retailing	3	
MM 321 Salesmanship	3	
MM 401 Promotional Strategy	3	



# Management Technology/CIM

MM 412 Marketing Management	3
MM 432 Consumer Behavior	3
MM 470 Marketing Research	3
<b>Electives</b>	<b>20</b>
	<b>128</b>

## Suggested Order of Study

**Bachelor of Science in Business Administration**  
Major Code 0507  
**Marketing Emphasis**

### Freshman Year

#### 1st Semester

Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Math 131 Finite Math]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3

CORE [Bio 101 General Biology]	4
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1
	<b>16</b>

#### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [Phys 100 Fund of Phys Sci]	5
CORE [Comm 100 Communications]	3
CORE [Psy 100 or Soc 110]	3
CORE [HPER 101 Physical Activity]	1
	<b>15</b>

### Sophomore Year

#### 1st Semester

Acct 201 Prin of Acct I	3
CORE [Econ 201 Prin of Econ-Macro]	3
MM 237 Managerial Data Processing	3
CORE [Fine Arts (Art 110, Mus 110 or Th 110)]	3
CORE [Hist 110 American History]	3
	<b>15</b>

#### 2nd Semester

Acct 202 Prin of Acct II	3
Econ 202 Prin of Econ-Micro	3
CORE [Literature (Eng 261, 262, 271, 272, 281 or 282)]	3
CORE [Hist 120 American History]	3
Elective	3
	<b>15</b>

### Junior Year

#### 1st Semester

GB 301 Business Law I	3
MM 350 Prin of Management	3
MM 300 Prin of Marketing	3
GB 321 Business Statistics	3
<b>Electives</b>	<b>15</b>

#### 2nd Semester

MM 312 Retailing	3
MM 321 Salesmanship	3
GB 320 Business Comm	3

<b>Electives</b>	<b>9</b>
(Must be selected in consultation with faculty adviser from courses numbered 300 or above within the School of Business Administration)	
	<b>18</b>

### Senior Year

#### 1st Semester

MM 401 Promotional Strategy	3
MM 412 Marketing Management	3
CORE [International Cultural Studies] (GB 310 Strongly recommended)	3
CORE [Humanities and Fine Arts Elective] (See Core Requirements, page 35)	3
<b>Electives</b>	<b>6</b>
	<b>18</b>

#### 2nd Semester

MM 432 Consumer Behavior	3
MM 470 Marketing Research	3
MM 452 Business Policy	3
<b>Electives</b>	<b>8</b>
	<b>17</b>
	<b>128</b>

## Management Technology

The B.S. in management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

## Bachelor of Science in Management Technology

Semester Hours

<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Management Technology Major (1) Required:</b>	<b>42</b>

Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
GB 301 Business Law I	3
GB 302 Business Law II	3
GB 320 Business Comm	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
Econ 350 Financial Management	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3
MM 431 Operations Management	3
	<b>33</b>

(2) Three additional courses selected from:  
Acct 310 Cost Accounting

GB 321 Business Statistics I	
GB 237 Managerial Data Processing*	
MM 401 Promotional Strategy	
MM 412 Marketing Management	
MM 352 Personnel Management	
MM 452 Business Policy	9
<b>Electives (includes courses already taken at associate level)</b>	<b>35</b>
	<b>128</b>

\*Students obtaining an A.S. in computer science may not choose GB 237 as a required elective.

## Management Technology (CIM Emphasis)

The School of Business Administration, in cooperation with the School of Technology, offers the Bachelor of Science in Management Technology with Emphasis in Computer Integrated Manufacturing (CIM).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration.

Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

## Bachelor of Science in Management Technology (CIM Emphasis)

Semester Hours

<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Management Technology</b>	<b>36</b>
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Acct 325 Managerial Accounting	3
Econ 202 Prin of Economics-Micro	3
(Assume Econ 201 taken in General Core)	
MM 300 Prin of Marketing	3
MM 337 Management Information Systems	3
MM 350 Prin of Management	3
MM 431 Operations Management	3
GB 320 Business Comm	3



# Office Administration

GB 321	Business Statistics	3
GB 354	Total Quality Management	3
GB 405	Statistical Quality Control	3

**CADD and CAM specialization-School of Technology** 36  
40  
127

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

## Office Administration and Business Education

**Faculty** Compton, Culwell, Grim, Rusley

Secretarial training is available under both an associate of science degree and a one-year certificate. The A.S. office administration major course of study provides both secretarial skills and the necessary business skills for a graduate to manage an office. The one-year certificate of achievement prepares a recipient for entry-level office duties. Courses help business education majors meet B.S.E. graduation requirements and state requirements for certification.

## Associate of Science in Office Administration

	Semester	Hours
<b>Core Curriculum (page 35)</b>	<b>25-26</b>	
<b>Office Administration Major:</b>	<b>39</b>	
Acct 201 Prin of Accounting I	3	
GB 301 Business Law I	3	
GB 320 Business Comm	3	
OA 200 Typ/Elec Doc Prod	3	
OA 220 Shorthand III	3	
OA 230 Administrative Secretarial Procedures	3	
OA 231 Machine Transcription/Reprographics	3	
OA 240 Records Management	3	
OA 250 Intro to Word Processing	3	
Electives: (May include prerequisite courses to OA 200 and OA 220 if needed. Others must be selected from OA 298 Seminar, MM 237 Managerial Data Processing, MM 350 Prin of Management, Acct 202 Prin of Accounting II, Econ 201 Prin of Economics-Macro, Econ 202 Prin of Economics-Micro or GB 115 Business Math/Microcomputers. Selections		

from psychology and computer science also are valid, with approval from adviser.) 12  
64-65

## One Year Certificate of Achievement in Secretarial Science

	Semester	Hours
OA 120 Shorthand II	3	
OA 102 Type/Format	3	
GB 115 Business Math/Microcomputers	3	
Acct 201 Prin of Accounting I	3	
CORE [Eng 101 Comp I]	3	
GB 320 Business Comm (Eng 101)	3	
OA 200 Typ/Elec Doc Prod (OA 102)	3	
OA 220 Shorthand III	3	
OA 231 Machine Transcription/Reprographics	3	
CORE [Comm 100 Oral Comm]	3	
	<b>30</b>	

## Suggested Orders of Study

**Associate of Science**  
Major Code 5005  
**Office Administration**

<b>Freshman Year</b>	
1st Semester	Hours
Course	
CORE [Psy 100 or Soc 110]	3
CORE [Comm 100 Oral Comm]	3
CORE [Eng 101 Comp I]	3
CORE [Math 30 Intermediate Algebra OR Math 110]	3
Psy 120 College Orientation	1
Business Elective	3
	<b>16</b>

<b>2nd Semester</b>	
Acct 201 Prin of Acct I (Math 131)	3
OA 200 Typ/Elec Doc Prod	3
CORE [Literature, Art 110, Mus 110, Th 110 or Phil 201]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Psc 120 or Hist 110 or 120]	3
Business Elective	3
	<b>17</b>

<b>Sophomore Year</b>	
1st Semester	Hours
OA 231 Machine Transcription/Reprographics	3
GB 320 Business Comm	3
GB 301 Business Law I	3
Business Electives	6
CORE [HPER 101 Physical Activity]	1
	<b>16</b>

<b>2nd Semester</b>	
OA 230 Administrative Secretarial Procedures	3
OA 220 Shorthand III	3
OA 250 WP Concepts/Apl	3
CORE [Physical Science 100 or Bio 100]	4-5
OA 240 Records Management	3
	<b>16-17</b>

[ ] Department Recommendation  
( ) Prerequisite

Business electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from OA Seminars, Managerial Data Processing, principles of management, accounting, economics or business math. Psychology or computer science courses may be selected with approval of adviser.

## Secretarial-Typist Certificate

Major Code 5065  
**One-year Schedule**

<b>1st Semester</b>	
Course	Hours
CORE [Comm 100 Oral Comm]	3
OA 102 Type/Format	3
OA 120 Shorthand II	3
CORE [Eng 101 Comp I]	3
OA 231 Machine Transcription/Reprographics	3
	<b>15</b>

<b>2nd Semester</b>	
GB 115 Business Math/Microcomputers	3
OA 200 Typ/Elec Doc Prod	3
OA 220 Shorthand III	3
GB 320 Business Comm	3
Acct 201 Prin of Accounting I	3
	<b>15</b>

## Bachelor of Science in Education (Business Major)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

## Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)

	Semester	Hours
<b>Core Curriculum (page 35)</b>	<b>51</b>	
<b>Education courses (page 118)</b>	<b>35</b>	
<b>Business Major</b>	<b>48-49</b>	
OA 102* Type/Format	3	
OA 200* Typ/Elec Doc Prod	3	
OA 120* Shorthand II	3	
OA 220* Shorthand III	3	
Acct 201 Prin of Accounting I	3	
Acct 202 Prin of Accounting II	3	



# Courses/Accounting

Accounting - Select one:	3-4
Acct 312 Intermediate Accounting I	(4)
Acct 325 Managerial Accounting	(3)
Acct 401 Tax Accounting	(3)
MM 237 Managerial Data Processing	3
Econ 201 Prin of Economics-Macro	3
Econ 202 Prin of Economics-Micro	3
GB 320 Business Comm	3
GB 301 Business Law I	3
OA 250 Word Processing Concepts/ Appl	3
GB 312 Prin of Business Educ	3
MM 300 Prin of Marketing	3
MM 350 Prin of Management	3

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\*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 48 hour requirement.

## Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)

	Semester Hours
Core Curriculum (page 35)	51
Education courses (page 118)	35
Business Major	33-34
OA 102* Type/Format	3
OA 200* Typ/Elec Doc Prod	3
OA 120* Shorthand II	3
OA 220* Shorthand III	3
Acct 201 Prin of Accounting I	3
Acct 202 Prin of Accounting II	3
Acct 312 Intermediate Accounting I	4
OR	
Acct 325 Managerial Accounting	3
OR	
Acct 401 Tax Accounting	3
Econ 201 Prin of Economics-Macro	3
GB 320 Business Comm	3
GB 301 Business Law I	3
MM 237 Managerial Data Processing	3

\*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses to meet the 33 hours requirement.

## Suggested Order of Study

Bachelor of Science  
Major Code 0838  
Plan B-Single Teaching Field

### Business Education

Freshman Year	
1st Semester	
Course	Hours
CORE [Eng 101 Comp I]	3
CORE [Hist 110 U.S. History]	3
CORE [Art 110, Mus 110 or Th 110]	3
CORE [Psy 100 General Psychology]	3
Educ 100 Orientation to Educ I	1
CORE [HPER 103 Lifetime Wellness]	2
Psy 120 College Orientation	1

16

### 2nd Semester

CORE [Eng 102 Comp II]	3
CORE [PSc 120 Gov't: U.S., State, Local]	3
CORE [Hist 120 or 320]	3
CORE [Math 131 Finite Math]	3
Psy 302 Exceptional Child	2
OA 102 Typ/Format (OA 101)	3

17

### Sophomore Year

1st Semester	
CORE [Econ 201 Prin of Economics-Macro]	3
Acct 201 Prin of Accounting I (Math 131)	3
CORE [Bio 101 General Biology]	4
Educ 200 Orientation to Educ II	1
CORE [Literature (Eng 261, 262, 271, 272, 281, 282)]	3
CORE [HPER 101 Physical Activity]	1
Psy 310 Educational Psychology	2

17

### 2nd Semester

Acct 202 Prin of Accounting II (Acct 201)	3
MM 237 Managerial Data Processing	3
CORE [Gen Ed Phys 100]	5
CORE [Comm 100 Oral Comm]	3
Econ 202 Prin of Economics-Micro	3

17

### Junior Year

1st Semester	
Acct 312 Intermediate Accounting I or Acct 325 Managerial Accounting or Acct 410 Tax Accounting (Acct 202)	3
GB 301 Business Law I	3
Psy 301 Adolescent Psychology	3
Educ 329 Pedagogical Theory, Methods & Practices	4
Educ 321 Microteaching, Secondary	2
Educ 423 Classroom Management	2

17

### 2nd Semester

CORE [Humanities and Fine Arts]	3
OA 200 Typ/Elec Doc Prod (OA 102)	3
OA 120 Shorthand II (OA 111)	3
GB 320 Business Comm (Eng 102)	3
MM 300 Prin of Marketing (Econ 202)	3
Educ 422 Reading Secondary	2

17

### Senior Year

1st Semester	
CORE [International Cultural Studies]	3
OA 250 Intro to Word Processing (OA 102)	3
OA 220 Shorthand III (OA 120)	3
GB 312 Prin of Business Ed	3
MM 350 Prin of Management	3

15

### 2nd Semester

Professional Semester	
Educ 462 Student Teaching Secondary	8
Educ 432 Critical Issues in Educ	2
Educ 402 Foundation of Educ	2
Educ 336 Teaching Business, Secondary	2
Psy 412 Measurement and Evaluation	2

16

[J]Department Recommendation  
(P)Prerequisite

For additional information contact:  
Dean of School of Business Administration  
Office: Matthews Hall 302  
Phone: 625-9319

Students with proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 48 hours requirement.

## School of Business Course Descriptions

### Accounting(Acct)

#### Principles of Accounting I (F, S)

06.0201-201 3 hrs. cr.  
Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

#### Principles of Accounting II (F, S)

06.0201-202 3 hrs. cr.  
A continuation of Accounting 201 with an emphasis on corporations and partnerships and cost/managerial accounting principles. Prerequisite: Acct 201.

#### Cost Accounting (F, S)

06.0201-310 3 hrs. cr.  
Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and process cost systems as applied to industrial enterprises. Prerequisites: Acct 202, MM 237.

#### Intermediate Accounting I (F, S)

06.0201-312 4 hrs. cr.  
First of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). The course is organized in three areas: (1) environment of



# Courses/General Business

financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) accounting for assets. Prerequisite: Acct 202, MM 237.

## Intermediate Accounting II (F, S)

06.0201-322 4 hrs. cr.  
Second of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Organized in four areas: (1) accounting for liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) pensions, leases and income taxes; (4) financial statement reporting and analysis. Prerequisite: Acct 312.

## Managerial Accounting

06.0201-325 3 hrs. cr.  
Accounting as a tool for the process of planning, controlling and decision making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

## Tax Accounting I (F, S)

06.0201-375 3 hrs. cr.  
Procedures for reporting federal income taxes with emphasis on income and deductions for individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission.

## Advanced Accounting (F, S)

06.0201-402 3 hrs. cr.  
Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322.

## Tax Accounting II (F)

06.0201-408 3 hrs. cr.  
Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

## Auditing (F, S)

06.0201-411 3 hrs. cr.  
Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing and performing an audit. Prerequisite: Acct 322.

## CPA Problems (Demand)

06.0201-412 3 hrs. cr.  
Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures and problem solving exercises and a review of appropriate

theoretical and technical pronouncements. Prerequisite: 21 hours of accounting including Acct 411 (Auditing) or senior standing AND permission of instructor.

## Accounting Theory (Demand)

06.0201-420 3 hrs. cr.  
Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Helps prepare students for the theory portion of the CPA examination. Prerequisite: Acct 322.

## Governmental and Non-profit Accounting (F)

06.0201-421 3 hrs. cr.  
Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of college and universities, hospitals and other non-profit entities. Prerequisite: Acct 322.

## Internship in Public Accounting (Demand)

06.0201-491 1-8 hrs. cr.  
Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee. (Not more than 3 hrs. per semester.)

## Seminar in Accounting (Demand)

06.0201-498 1-3 hrs. cr.  
For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminars offered in the past include Advanced Auditing and Advanced Cost.

## Independent Study in Accounting (Demand)

06.0201-499 1-3 hrs. cr.  
Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

## General Business (GB)

### Introduction to Business (F, S)

06.0101-101 3 hrs. cr.  
Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hrs. of business.

## Business Mathematics/Microcomputers (F, S)

06.0101-115 3 hrs. cr.  
Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes and financial statements. Recommended for associate degree students only. Prerequisite: Permission of instructor.

## Business Law I (F, S)

06.0101-301 3 hrs. cr.  
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes. Lectures supported by actual case decisions and case digests. Prerequisite: Junior standing.

## Business Law II (F, S)

06.0101-302 3 hrs. cr.  
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisites: Junior standing.

## Principles of Business Education (F)

06.0101-312 3 hrs. cr.  
Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations and vocational programs.

## International Business

06.0101-310 3 hrs. cr.  
Introduction to the complexities of international trade. Focus on cultural differences, theories of international trade and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or 201.

## Business Communication (F, S)

06.0101-320 3 hrs. cr.  
Communication through sound written and oral business messages. Includes principles, functions, techniques and format of writing effective letters, memos and reports with emphasis on the application process. Prerequisites: 6 hrs. English Composition or permission of instructor.

## Business Statistics I (F, S)

06.1301-321 3 hrs. cr.  
Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendencies and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130 or 131 or higher, GB 237.



# Courses/Economics & Finance

## Business Statistics II (S)

06.1301-322 3 hrs. cr.

Methods of statistical analysis relating to business decision making and research in business and economics. Emphasizes sampling theory, parametric test of hypothesis, analysis of variance, non-parametric test of hypothesis, statistical quality control and other selected statistical techniques. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: GB 321.

## Total Quality Management (Demand)

06.0101-354 3 hrs. cr.

Total Quality Management (TQM) is an overview of an evolving philosophy for continuous improvement of products, processes and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350 or consent of instructor.

## Statistical Quality Control (Demand)

06.1401-405 3 hrs. cr.

Impact of foreign competition on American industry and need for quality productivity and management improvement. Attention to the Deming management principles and statistical and quantitative methods used by major industries. Prerequisites: GB 321 or consent of instructor.

## Seminar in General Business (Demand)

06.0101-498 1-3 hrs. cr.

For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past include office machines, career orientation and human relations.

## Independent Study in General Business (Demand)

06.0101-499 1-3 hrs. cr.

Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

## Economics and Finance (Econ)

### The American Economic System (F, S)

06.0501-180 3 hrs. cr.

A core course on the goals, organization and operation of the U.S. market economy. Topics include: scarcity and choice; the operation of the pricing mechanism and the role of competition, profits, savings and investment in the allocation of resources; the economic functions of government; limitations of the market system; market versus command economies; and the industrial organization of our contemporary capitalistic economy with emphasis on the activities of the business firm. Not for business

majors or for those who have taken Econ 201 or 202.

### Principles of Economics (Macro) (F, S)

06.0501-201 3 hrs. cr.

Economic principles that apply to the economy as a whole, such as: total income, output, employment, general price level, economic growth, international trade, monetary and fiscal policies and current economic problems. Prerequisite: Sophomore standing or permission, Math 130 or above.

### Principles of Economics (Micro) (F, S)

06.0501-202 3 hrs. cr.

Fundamental institutions of the American economy, the theory of price determination and the theory of income distribution. Prerequisite: Sophomore standing or permission, Math 130 or above.

### Money and Banking (F, S)

06.0501-300 3 hrs. cr.

The nature, need constituents, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

### Economic Growth and Development (Demand)

06.0501-302 3 hrs. cr.

The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

### Economic Resources (Demand)

06.0501-312 3 hrs. cr.

Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

### Business Statistics II 06.1301-322

(See Gen. Bus. 06.1301-322 Bus. Statistics II.)

### Principles of Insurance (Demand)

06.0801-330 3 hrs. cr.

Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ 201 and 202.

### Financial Management (F, S)

06.0501-350 3 hrs. cr.

Study of the financial operating environment

and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, MM 237.

### Microeconomic Analysis (F)

06.0501-401 3 hrs. cr.

Study of the price system and resource allocation through a system of markets and prices, the conditions for an efficient economic system, the determination of product and input prices under various types of markets. Marginal productivity and income distribution and optimum welfare. Prerequisites: Econ 201 and 202.

### Macroeconomic Analysis (S)

06.0501-402 3 hrs. cr.

Fundamental concepts and theories of the aggregate economic variables, an aggregate economic model of the economy including goods market, money market, labor market and foreign market; their interrelation and interaction. Comparative static and dynamic analysis. The economic growth in a dynamic setting, inflation and income distribution. Prerequisite: Econ 300.

### Investments (F)

06.1001-411 3 hrs. cr.

Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

### Urban and Regional Economics (Demand)

06.0501-412 3 hrs. cr.

Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.

### Financial Institutions

06.0501-415 3 hrs. cr.

A broad introduction to the operation, mechanics and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks and savings institutions and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.

### Seminar in Economics & Finance (Demand)

06.0501-498 1-3 hr. cr.

Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics



# Courses/Marketing & Management

498-Seminar in Business Cycles  
498-Seminar in Public Finance

## Independent Study in Economics-Finance (Demand)

06.0501-499 1-3 hrs. cr.  
Individually directed readings, research and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

## Marketing and Management (MM)

### Managerial Data Processing (F, S)

06.1201-237 3 hrs. cr.  
Application of automatic information processing to business, the media for recording, processing and controlling of business information by the automatic process and the formats and flow of data through electronic computers with simulated problems applicable to areas of accounting, management and marketing. Credit may not be allowed for both MM 237 and CIS 305. Formerly GB 237.

### Principles of Marketing (F, S)

06.1401-300 3 hrs. cr.  
Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

### Retailing (F, S)

06.1401-312 3 hrs. cr.  
Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

### Salesmanship (F)

06.1401-321 3 hrs. cr.  
Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

### Management Information Systems

06.1201-337 3 hrs. cr.  
Familiarizes business students with management information systems, including proper selection of software and hardware components. Prerequisite: MM 237 or CIS 115 and 120. Formerly GB 237.

### Principles of Management (F, S)

06.0401-350 3 hrs. cr.  
Survey of the current state of the art and science of management, including the role of managers and how through the coordination of the managerial functions (planning, organizing, leading, contributing, etc.) organizational and individual goals may be achieved.

### Human Resource Management (F, S)

06.0401-352 3 hrs. cr.  
Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

### Promotional Strategy (S)

06.1401-401 3 hrs. cr.  
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.

### Small Business Management Practicum (F, S)

06.1801-410 3 hrs. cr.  
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

### Labor Law (Demand)

06.0101-411 3 hrs. cr.  
Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing. Formerly GB 411.

### Marketing Management (F)

06.1501-412 3 hrs. cr.  
Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.

### Operations Management (F)

06.0401-431 3 hrs. cr.  
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

### Consumer Behavior (Demand)

06.1499-432 3 hrs. cr.  
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological,

economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

### Organizational Behavior (F, S)

06.1501-441 3 hrs. cr.  
Study of people in organizations to provide an opportunity for more self awareness. Focuses on organizational effectiveness as well as satisfaction of individual needs. Students are offered the opportunity to develop more fully their ability to analyze and act on human behavior problems they will face in the future. Prerequisite: MM 350.

### The Psychology of Human Resource Management (Demand)

06.0401-450 3 hrs. cr.  
Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental methods.

### Business Policy (F, S)

06.0401-452 3 hrs. cr.  
An integrating capstone course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisites: MM 300, MM 350, Econ. 350. This course must be taken during the last year of college work.

### Marketing Research (S)

06.0401-470 3 hrs. cr.  
The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.

### Internship in Marketing/Management (F, S)

06.1501-491 18 hrs. cr.  
An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: Senior standing and department approval.

### Seminar in Marketing & Management (Demand)

06.1401-498 1-3 hrs. cr.  
Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

### Independent Study in Marketing and Management (Demand)

06.1401-499 1-3 hrs. cr.  
Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged



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## Courses/Office Administration

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upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.

### Office Administration and Business Education (OA)

#### Typewriting/Keyboarding (F, S)

07.0601-101 3 hrs. cr.  
Emphasis on learning to manipulate the keyboard efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one year of high school typewriting.

#### Typewriting/Formatting (F, S)

07.0601-102 3 hrs. cr.  
A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables and employment communications. Prerequisite: OA 101 or a good knowledge of the keyboard.

#### Shorthand I (S)

07.0601-111 3 hrs. cr.  
A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Prerequisite: Typewriting 101 or equivalent.

#### Business Mathematics/Microcomputers (F, S)

06.0101-115 3 hrs. cr.  
Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank

discount, compound interest, annuities, insurance, payrolls, taxes and financial statements. Recommended for associate degree students. Introduction to spread sheets using Super Calc 3.

#### Shorthand II (F)

07.0601-120 3 hrs. cr.  
A dictation course including a review of theory and special attention to the development of efficient transcription procedures. Dictation ranges from 60 to 110 words per minute. The minimum speed requirement by the end of the semester is 80 words per minute with 95 percent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

#### Typewriting/Electronic Document Production (S)

07.0601-200 3 hrs. cr.  
Production of all types of letters, reports, business forms, tables and legal forms based on realistic office job simulations. Prerequisite: OA 102 or equivalent.

#### Shorthand III (S)

07.0601-220 3 hrs. cr.  
The application of shorthand theory, grammar, punctuation and capitalization rules and spelling to the transcription of business letters and memoranda. Emphasis on accuracy and rate of transcription and the ability to produce mailable office correspondence. Prerequisite: OA 120 or equivalent or OA 102 or equivalent.

#### Administrative Secretarial Procedures (S)

07.0601-230 3 hrs. cr.  
Secretarial duties performed and the conditions under which the secretary functions. Practice in decision making and the application of secre-

tarial skills through simulated office situations. Offered for sophomores in the office administration curriculum. Prerequisite: OA 120, recommended -- GB 320 or permission.

#### Machine Transcription/Reprographics (F)

07.0601-231 3 hrs. cr.  
Students will be introduced to and expected to develop a knowledge of and efficient operable skill in offset, stencil and fluid duplicating machines, other copying machines, transcribing machines and word processing equipment. Offered for students in the office administration curriculum. Prerequisite: OA 102.

#### Records Management (S)

07.0601-240 3 hrs. cr.  
Intensive exposure to the knowledge and skills needed in modern day records management and their application to various types of businesses. Includes a study of the creation, classification, retention and disposal of records with emphasis on the control aspect. Offered for students in the office administration curriculum.

#### Word Processing Concepts/Applications (F, S)

07.0601-250 3 hrs. cr.  
Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: OA 102 Typewriting.

#### Principles of Business Education (F)

06.0101-312  
(See General Business 06.0101-312)

#### Teaching Business in Secondary Schools (S)

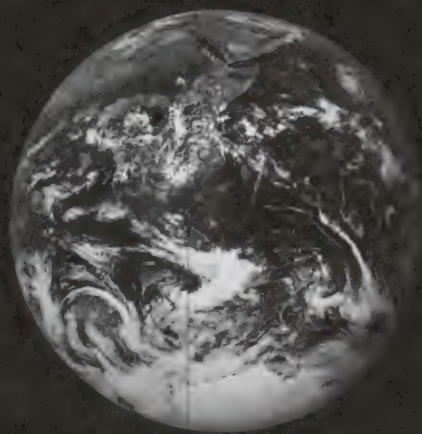
(See Education 13.1303-336)







THE  
SCHOOL  
OF  
EDUCATION  
&  
PSYCHOLOGY





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# School of Education and Psychology

## School Dean

Edward P. Merryman  
Taylor Hall 220, 625-9314

## Degrees and Majors

### Bachelor of Arts

Psychology

### Bachelor of Science

Psychology

### Bachelor of Science in Education

Elementary Education

Secondary Education

Physical Education

Psychology-Special Education

## Role

The School of Education and Psychology shares in the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers, and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the institution by providing support courses in physical education and psychology to the Core Curriculum.

The programs in the School of Education and Psychology are service-oriented and attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions these students make to society, those who are academically talented are encouraged to participate in the program.

A unique characteristic of the basic teacher preparation program is the shared responsibility for training preservice elementary and secondary teachers with academic units outside of the School of Education and Psychology. Eighty percent of the course work in secondary education and 70 percent of the course work in elementary education is done in academic units outside the professional education unit. The Secondary Education Committee coordinates the work done by secondary education students in academic units in the School of Arts and Sciences and the School of Business Administration. All academic units have representatives on this committee. The ultimate responsibility for all teacher education programs rests with the Education Department, which is the governing unit for the basic teacher preparation program.

## Scope

The School of Education and Psychology

contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory and they use this knowledge to develop teaching methods, techniques and procedures to create a maximal learning environment. Faculty provide services to the community by participating in civic organizations as leaders, members and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

## Teacher Education

The teacher education program is based on a decision making model which defines the role of the teacher as decision maker. In this role, the teacher must make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology and program evaluation. Decisions about lesson design include communications, use of science, technology and the arts, problem solving, value clarification, intellectual domains and social institutions. An extension of the role of the teacher as a decision maker includes the teacher as a change agent, learner, provider of services and researcher.

Central to the conceptualization of the role of the teacher is the knowledge base. The knowledge base is composed of knowledge, skills, techniques, concepts, constructs, etc., that have been gathered from research, reported effective practices and learned societies in such areas as school effectiveness, principles of effective instruction, human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, and psychological, sociological, historical and philosophical foundations.

In order to be an effective decision maker, the teacher must possess certain knowledges, cognitive abilities and pedagogical skills. The objectives below were developed to assure the teacher education program provides these knowledges and skills:

1. to provide a working knowledge and competency in the philosophical, sociological and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design and educational planning.
2. to guide in the effective application of learning theory. This application shall include the learning environment, learner attributes and learning tasks.
3. to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology and the arts.
4. to develop an understanding of how the human grows and develops. This understanding includes the theoretical basis for development and how this relates to teaching and learning.
5. to create an awareness of the cultural diversity that exists in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture.
6. to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter as well as the methods, techniques and skills for teaching this subject matter.
7. to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities.
8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness.
9. to make available experiences in learning to utilize and apply technology in education, such as microcomputers, VHS and film media. To develop effective use of the new technology as de-



# Teacher Education

livery systems for instructional purposes.

10. to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials and all other physical properties related to learning.
11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning.
12. to provide the knowledge and skills required for reporting to, and working with, parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction.
13. to provide practical experiences that accurately reflect those that occur in typical classroom settings. These experiences will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods and techniques as they are applied to learning and the learner.
14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.

## Bachelor of Science in Education (B.S.E.)

Students majoring in elementary education, elementary education/special education, physical education, psychology/special education and secondary education and who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certification. This is a probationary certificate that is granted for two years. Addition-

al certification is granted by the Missouri Department of Elementary and Secondary Education. Recipients of other degrees who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All of the teacher education programs have been approved by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education. All programs are designed to exceed minimal requirements for certification.

### Admission to the Teacher Education Program

Applications for admission to the teacher education program may be filed with the Dean of the School of Education when the student has successfully completed 55 semester hours of prescribed course work. The deadline for application is the second week in March for those seeking admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the second week in November.

Students must be tentatively admitted before courses can be taken in professional education. These courses are identified by the Educ prefix numbers as 300 or above. Qualifications for tentative admission include the following:

1. Submit a completed application that is signed by the student's adviser. The adviser's signature indicates that the student's adviser and the adviser's department are recommending the student for admission.
2. A cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.
3. Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)
4. Have a composite ACT enhanced score of 20 or a SAT (VM) of 800.
5. Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.
6. Submit a passing evaluation in speech from the communications department.

Students who are tentatively admitted to the teacher education program will receive notification from the Dean. Students who fail to gain tentative admission will also be

notified by the Dean. Reasons for failure to gain admission will be stated, along with suggested corrective measures should the student wish to continue pursuing admission.

Full admission is granted when the student successfully completes Educ 329, Pedagogical Theory, Methods and Practices, Educ 321 Micro Teaching and Educ 423 Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dropped from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, special education and early childhood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifying for full admission to the program will be notified in writing by the Dean. The date of admission will be entered on the student's record by the Registrar. Unsuccessful students will also be notified and corrective measures suggested.

Applications for admission must be completed and on file in the office of the Dean of the School of Education and Psychology by Friday of the first week in November for the first semester and by Friday of the first week in March for the second semester.

### Admission to Student Teaching

Between the course on Pedagogical Theory, Methods and Practices (Educ 329) and the professional semester, the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must make a "C" or better in all professional education courses. The students must retake courses in which a grade lower than "C" is received. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. Be fully admitted to the teacher education program.



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## Certification

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2. Have a cumulative GPA of 2.75.
3. Have a cumulative GPA of 2.5 in teaching specialty area.
4. Have all previous course work completed at the time of student teaching.
5. Have a completed application for student teaching on file.
6. Have a grade of "C" or better in each professional education course.
7. Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.

The student teaching program is intended for students who have met all of the requirements for student teaching at Missouri Southern State College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees, must complete the equivalent of the professional semester at Missouri Southern. They must be in good standing at their previous institution. The Dean of the School of Education and Psychology will develop a course plan for those who wish to complete Missouri certification requirements by taking student teaching at Missouri Southern.

### Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

1. Submit 10 examples of the student's best work in the teacher education program.
2. Pass all minimal competencies required of teacher education students.
3. Pass the Professional Skills Test of the National Teachers Exam.
4. Pass the Teaching Specialty Exam of the National Teachers Examination.
5. Successfully complete student teaching.
6. Have a cumulative GPA of 2.75 or higher.
7. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
8. Have a successful exit interview.

### Advisement

Freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100, Orientation to Education I. Sophomores declaring a major in teacher education will be assigned advisers in Educ

200 Orientation to Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area. This is because of the many specific course requirements and entrance and exit requirements for teacher education.

Post-graduates not holding a Missouri oteaching certificate and seeking Missouri certification must be advised in the specialty department of their intended teaching area. These students must meet all departmental requirements for certification.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

**Special Education Certification** Special education is an endorsement certification program (also called an area of concentration). This certificate is endorsed to the elementary education certificate. Missouri Southern has special education endorsement certification programs leading to certification in behavior disorders (BD), learning disabilities (LD) and mentally handicapped (MH). Information on these three programs can be obtained from the education department head and/or the Dean.

As part of the requirements for endorsement programs in BD, LD or MH, the student must have a 10 week student teaching experience in the endorsed certification area. Five weeks of the student teaching experience is in the elementary schools and five weeks is in the secondary schools. All students seeking special education certification must take Educ 324, Intro to Special Education, the methods course for the area in which they are specializing (Educ 403, 404 and/or 405), and a practicum course in the area in which they seek certification. These courses may not be taken concurrently, but must be taken in sequence. Further information on these programs is available in the education department office.

### Remedial Reading Certification

Students taking the prescribed courses for remedial reading certification may be certified in remedial reading upon the successful completion of two years of teaching

experience. Students who pursue this endorsement certification (area of concentration) may apply directly to the DESE for that certification. Program plans for remedial reading endorsement certification are available in the education department office.

### Early Childhood Certification

Elementary education majors wishing to certify in early childhood education, grades Pre-K-3, may do so in conjunction with their course work in elementary education by taking the following courses:

- Educ 316 Foundations, Issues and Trends in Early Childhood Education
- Educ 317 Curriculum in Early Childhood Education
- Educ 318 Early Childhood Methods and Materials
- Educ 319 Practicum I in Early Childhood Education
- Educ 323 Utilizing Family and Community Resources for the Young Child
- Educ 406 Practicum in Child Study: Uses and Interpretation of Informal Observation Techniques
- Educ 408 The Young At-Risk Child: Screening, Assessment and Prescription
- Educ 409 Topics in Early Childhood
- Educ 430 Language Development
- HPER 340 Motor Learning in Physical Education

Special considerations for field experiences are as follows:

Students in Educ 329 - Pedagogical Theories, Methods and Practices will be assigned to a kindergarten, first, second or third grade classroom for a specified number of clock hours.

Students in Educ 319 - Practicum I in Early Childhood Education will be assigned to the MSSC Child Development Center for 64 clock hours.

Students in Educ 406 - Practicum in Child Study will be assigned to a public school prekindergarten setting for 48 clock hours. Students in Educ 442 - Student Teaching will be assigned to two different early childhood settings involving two different age groups, prekindergarten through grade 3.

### Middle School Certification

Elementary education majors wishing to obtain middle school endorsements (grades 4-9) with elementary certificates may do so by completing the teaching specialty requirements for grades 7-9 and



# Teacher Education

specified courses for middle school teachers. A program plan for the middle school endorsement certificate is available in the education department office.

## Teacher Certification by Academic Contract

An "Academic Contract" may be executed with Missouri Southern on the condition that the person qualifies for admission into the teacher education program, has a signed statement from a school superintendent certifying employment, has less than 12 hours of deficiencies toward the certificate being sought, and has been properly enrolled in the College. All B.S.E. graduates from Missouri Southern are recommended for PC-I Certification by the Dean of the School of Education and Psychology.

## Secondary Education

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the education department. Program development, program changes and program evaluations for secondary education are done by the Secondary Education Committee which is part of the teacher education governance structure. The work of the committee is further implemented and reviewed by the Teacher Education Council and the education department, which is the governing unit in teacher education. Departments having a teaching specialty submit recommendations regarding specialty programs to the Secondary Education Committee. These recommendations represent the department's adherence to guidelines of learned societies, Missouri DESE guidelines, guidelines from accrediting bodies and from research and accepted practices that make up the knowledge base for secondary programs.

The Secondary Education Committee has adopted the following objectives for all secondary education majors:

1. The students shall demonstrate teaching competency in one or more teaching specialties.
2. The students know the general stages of growth and development and can relate these to educational planning in the teaching specialties.
3. The students can demonstrate knowledge of cultural diversity, mental exceptionalities and physical exceptionalities as they relate to instructional planning.

4. The students are aware of at least three classroom management models and can use them for classroom control.
5. The students can develop lesson and unit plans that contain clearly stated objectives, activities that parallel the objectives and appropriate evaluations that assess performances on these objectives.
6. The students have a knowledge of assessment and evaluation techniques and can apply this knowledge to determine instructional and learning effectiveness.
7. The students are aware of the new technologies in education and can use them in their teaching specialties.
8. The students can apply learning theory to instructional design and educational planning.
9. The students know and can apply a number of teaching methods and techniques, such as lecture, discussion, higher order and divergent questioning, closure, set induction and the use of examples and illustrations.
10. The students can use teacher evaluation techniques such as peer observation and interaction analysis.
11. The students can demonstrate the knowledge and understanding of philosophical and historical foundations of education.
12. The students can demonstrate a knowledge of current research in the area of teaching effectiveness.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

- |                       |   |
|-----------------------|---|
| 1. Art                | 10. Physics                                     |
| 2. Biology            | 11. Physical Science                            |
| 3. Chemistry          | 12. Social Science                              |
| 4. Business Education | 13. Speech & Theatre                            |
| 5. English            | 14. Computer Science as a second teaching field |
| 6. Spanish            |   |
| 7. Mathematics        |   |
| 8. Music              |   |
| 9. Physical Education |   |

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Under certain circumstances, it is possible for students to become qualified to teach art, music or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

## Plan A: (Double Major)

Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in social science, music or in programs preparing teachers for both elementary and secondary education. **If Plan A is selected, the second teaching field is required. Students may select an adviser in either department chosen as a major or from the department of education.**

## Plan B: (Single Teaching Field, Comprehensive Major)

Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field also may qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

Each department involved has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music and in certain programs preparing students for dual certification at both the elementary and secondary school level.

## Basic Professional Education Courses

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level.

## Freshman-Sophomore Year

Students should take Psy 100 General Psychology and Educ 302 The Exceptional Child, during their first two years.



# Teacher Education

## Freshman Year

### First Semester

Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3

### 2nd Semester

## Sophomore Year

### 1st Semester

Educ 200	Orientation to Educ II	1
Take C-Base Test		

### 2nd Semester

*Apply for Admission to Teacher Education. See page 117 for requirements.*

Educ/Psy 302	The Exceptional Child	2
Educ 401	Use of Comp Software in Class	2

## Junior Year

### 1st Semester

#### Pass Media Competencies

Psy 310	Educational Psychology	2
Educ 329	Pedagogical Theories, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

Note to secondary majors: students must take Educ 422 Teaching Reading in the Secondary School.

Note to K-12 students, i.e., special education, art, music, middle school, foreign languages and physical education. Students in the afore listed areas must take Psy 100 General Psychology and Psy 305 Developmental Psychology.

## Senior Year

### 1st Semester

*Apply for Student Teaching. See page 117 for admission requirements. All course work must be completed except for Professional Semester courses.*

### 2nd Semester

#### Elementary Teaching

Educ 322	Methods of Teaching Social Studies in the Elem School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching in the Elem School	8

Select two of the following:

Educ 412	Individualized Curriculum	2
Educ 420	Intro to Counseling*	3
Psy 412	Measurement - Evaluation in Psy & Educ	2

OR other educational courses approved by the Dean, School of Education and Psychology.

\*Must be taken on the night schedule in the semester preceding student teaching.

## Secondary Teaching

Educ	Methods course for sec teaching specialty	2-3
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 462	Student Teaching in the Sec School	8

Select two of the following courses:

Educ 412	Individualized Curriculum	2
Educ 420	Intro to Counseling*	3
Psy 412	Measurement - Evaluation in Educ & Psy	2

OR other education courses approved by the Dean, School of Education and Psychology.

\*Must be taken at night the semester before student teaching.

## Senior Year

The first semester of the senior year is a continuation of teaching specialty courses and professional education courses. It is during this time that the student applies for graduation and student teaching. The student should review the requirements for both graduation and admission to student teaching. This should be done prior to the first semester of the senior year.

The last semester of the senior year is an extremely busy one. During the first six weeks of the semester the student must complete professional education courses, and in the case of the secondary student, take the required teaching methods course. Courses taken during the first six weeks are five-day-a-week courses.

It is mandatory that the student attend the senior seminars. These seminars are held on each Wednesday afternoon during the first six weeks. During the seminars the student will complete applications for the National Teachers Examination and for PCI certification in Missouri. Other important business will be conducted during the seminars and it is necessary that the student be present.

All course work must be done prior to student teaching. Student teaching is the culminating experience in teacher education. Student teaching requires 50 full days of assigned classroom experiences. It is demanding work and requires the undivided attention of the student. Outside employment while student teaching is discouraged.

## Combination of Elementary and Secondary Teaching (K-12 Certification)

For students with teaching specialties in art, music, foreign language or physical education who desire certification at both the elementary and secondary levels, the following Professional Semester is recommended:

	Semester Hours
Educ 402	Foundations of Educ 2
Educ 432	Critical Issues in Educ 2
Educ 464	Student Teaching, Combination of sec and elem teaching in teaching specialty 8

Educ Methods course for sec educ in teach specialty 2-3

Select one of the following:

Educ 412	Individualized Curriculum	2
Educ 420	Intro to Counseling*	3
Psy 412	Measurement-Evaluation in Educ & Psy	2

OR other education courses approved by the Dean, School of Education and Psychology.

Psy 100 General Psychology and Psy 300 are required for all elementary education students.

Psy 100 General Psychology and Psy 301 Adolescent Psychology are required of all secondary students. Students who plan to teach in middle school and students who plan to certify in grades K-12 must take Psy 100 and Psy 305 Developmental Psychology.

## Minor in Education

An academic minor has been created in teacher education for the B.A. and B.S. student considering a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the student with an adequate background in professional education for career decision making and as a foundation for the remaining certification requirements.

## Minor in Education (Elementary and Secondary)

The student must meet admission requirements to the teacher education program. See page 117 for admission requirements.



# Education

	Semester Hours
Educ 302 The Exceptional Child	2
Educ 329 Pedagogical Theory, Methods & Practices	4
Educ 321 Microteaching	2
Educ 423 Classroom Management	2
<i>Pass Media Requirements</i>	
Educ 401 Use of Comp Software in the Classroom	2
Educ 402 Foundations of Educ	2
Educ 432 Critical Issues	2
Educ 342 Intro to Developmental Reading	
OR	
Educ 422 Reading in the Sec Schools	3-2
Educ 412 Curriculum Development	2

20

## Education

Taylor Hall 232, 625-9309

**Faculty** Sandrin - Head, Banks, Joyner, Leverett, Merryman, Myers, Ray, Steere, Wiley

Students who select education as a major field may choose to become qualified at either the elementary level, the secondary level or a combination of elementary and secondary (K-12).

Elementary majors must select an area of concentration totaling 21 hours in a designated curriculum area. The area of concentration is a structured series of courses that will lead to certification in grades 7-9. The following areas of concentration/certification are available: art, computer science, early childhood education, English, health and physical education, mathematics, music, remedial reading (also requires two years of teaching experience), science, social studies, speech and theatre or special education. For further information, an adviser should be consulted.

Students selecting to major in secondary education should refer to the section on secondary education which outlines specific professional education requirements. Subject matter requirements for the specific major are listed under the appropriate department, i.e., requirements for a B.S.E. in biology are listed in the biology department section of the Catalog.

## Objective for Elementary Education

The Elementary Education Major

1. has a strong background in Core Cur-

- riculum and can use the knowledge and skills obtained as a basis for the teaching content in the school setting;
2. can identify the general stages of child development and how these relate to educational planning;
3. can determine students' present level of performance and use the assessment for educational planning;
4. can identify developmental and behavioral problems and can make appropriate referrals;
5. can apply learning theory, instructional design and educational planning to classroom environments;
6. can organize and manage a classroom that permits enough freedom to encourage independent and critical thought and one that provides enough security that a child may feel safe;
7. is able to develop a learning program based on clearly stated instructional objectives which are functional and is able to parallel these objectives with learning activities, relevant resources and evaluations;
8. is able to match objectives and learning activities to individual needs and abilities of students;
9. can apply the new technology in education such as hardware and software, e.g., microcomputers and can use them as learning activities to meet instructional goals and objectives;
10. can use a variety of teaching techniques in the classroom;
11. can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities;
12. can use differentiated assessments to determine whether or not students' objectives are being met;
13. is able to apply classroom management techniques humanely and within the policies of the state and local school board;
14. recognizes the contributions of professional organizations which promote, advance and improve the quality of education;
15. has a plan for personal professional growth and development which includes self evaluation;
16. advocates and practices sound professional ethics in and out of the school setting;
17. can utilize relevant educational research findings and information from

the professional literature in designing an effective learning program for students;

18. can implement an instructional management system in a classroom setting;
19. can design appropriate instruction to meet a set of established competencies, e.g., Missouri Core Competencies.

## Bachelor of Science with a Major in Elementary Education

	Semester Hours
<b>Core Curriculum Requirements</b>	<b>51</b>
<b>Education Requirements</b>	

Math 120	Mathematics for Elem Teachers II	3
Eng 325	Children's Literature	3
Art 220	Art Education	3
Mus 332	Music for Elem School	3
Psy 300	Child Psychology	3
Educ/Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	2
HPER 311	Physical Education for the Elem School	2
Educ 401	Computer Software in the Classroom	2

Student must be tentatively admitted to teacher education prior to taking the following courses (see admission requirements).

Educ 329	Pedagogical Theory, Methods and Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2

### *Pass media competencies*

In order to take the remaining courses, the student must be fully admitted to the teacher education program.

Educ 311	Science in the Elem School	2
Educ 312	Problems of Teaching Arithmetic in Elem School	3
Educ 340	Language Arts	2
Educ 342	Intro to Developmental Reading	3
Educ 343	Teaching Reading in the Middle school	3
Educ 470	Diagnostic and Remedial Reading	3

### Professional Semester Courses

Students taking the following courses must have completed their applications for the student teaching experience:

Minimal hours required	
Educ 402	Foundations of Education 2
Educ 432	Critical Issues in Education 2



# Psychology

Educ 322	Teaching Social Science in the Elem School	2
Electives in Education		
Select two from the following:		
Educ 412	Individual Curriculum Development	2
Educ 303	Middle School Curriculum	2
Educ 317	Curriculum in Early Childhood Education*	3
Educ 420	Intro to Counseling**	3
Psy 412	Measurement and Evaluation	2
Educ 442	Student Teaching	8
Meet all exit requirements (see graduation requirements)		
Area of Concentration		21
*This class is open only to early childhood specialization students and is a required course.		
**Students must take this course at night the semester prior to student teaching.		

## Suggested Order of Study

Bachelor of Science in Education with a Major in Elementary Education

### Freshman Year

1st Semester		Hours
Course		
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 111 Math for Elem Teachers I]	3
CORE	[Econ 180 Amer Econ System]	3
Psy 120	College Orientation	1
		14

### 2nd Semester

Math 120	Math for Elem Teachers II (Math 111)	3
CORE	[Eng 102 Comp I]	3
CORE	[Comm 100 or 131]	3
CORE	[Hist 110 U.S. History 1492-1877]	3
CORE	[Literature]	3
		15

### Sophomore Year

1st Semester		
Educ 200	Orientation to Educ II	1
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	3
CORE	[Hist 120 U.S. History 1877-Present]	3
Select one: 3		
CORE	[Art 110 Art Apprec]	3
CORE	[TH 110 Theatre Apprec]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		17

### 2nd Semester

Take C-Base Exam. Apply for admission to the teacher education program.

Psy 300	Child Development	3
Psy 310	Educational Psychology (Psy 100)	2
CORE	[Soc 110 or 152 Sociology]	3
CORE	[HPER 370 School Health Educ]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Art 220	Art Educ	2
Educ 401	Comp Software in the Class	2
		20

### Junior Year

#### 1st Semester

Must be tentatively admitted to the teacher education program before courses with the "Educ" prefix can be taken.

Educ 329	Pedagogical Theory, Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Pass media competencies		
Mus 322	Music for Elem School	2
CORE	[HPER 311 P.E. for Elem School]	2
CORE	[Geog 211 Regions & Nations]	3
Educ 302	The Exceptional Child (Psy 100)	2
		15-17

### 2nd Semester

Educ 325	Children's Literature	3
Educ 340	Teaching Language Arts	2
Educ 342	Intro to Developmental Reading	3
Educ 312	Problems of Teaching Arithmetic	3
Educ 311	Teaching Science Elem School	2
		13

### Senior Year

#### 1st Semester

Educ 343	Teaching Reading in Middle School (Educ 342)	3
Educ 470	Diagnostic & Remedial Reading (take with Educ 342)	3
Educ 322	Teaching Social Studies in Elem School	2
		8

### 2nd semester

Professional Semester

For additional information contact:

Education Department

Office: Taylor Hall 237

Phone: 625-9308

## Psychology

Taylor Hall 206, 625-9315

**Faculty** Babbitt, Griffin, Junkins, Murdock, Paige, Volskay, Wang

The psychology department offers three degrees: the bachelor of arts (B.A.), the bachelor of science (B.S.) and the bachelor of science in education with a major in psychology-special education (B.S.E). The B.A. and B.S. degrees provide an excellent foundation for students who wish to earn

advanced graduate degrees in pursuit of a career in psychology. The B.S.E. degree is offered in cooperation with the education department. Graduates of that program will be certified to teach special education in K-9 and to teach psychology at the secondary level. Some possible options with the B.S.E. are given following the description of that program below.

## Bachelor of Arts in Psychology

Semester Hours

<b>Core Curriculum Requirements</b>		<b>51</b>
(page 35)		
<b>Foreign Language</b>		<b>12</b>
<b>Psychology Requirements</b>		<b>40</b>
Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 300	Child Development (3)	4-3
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology**	5
Psy 411	Psychology of Sensation and Perception	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 451	Learning and Memory	3
Psy 452	History and Systems of Psychology	3
Psy 480	Senior Seminar	2
Psy 481	Senior Thesis	2
Psychology Electives		6
<b>Supporting Area</b>		<b>21</b>

The supporting area requires at least 21 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology or other area approved by the adviser and the department.

Electives (from psychology or other) 4  
128

\*Formerly numbered 311

\*\*Formerly numbered 312

## Bachelor of Science in Psychology

Semester Hours

<b>Core Curriculum Requirements</b>		<b>51</b>
(page 35)		



# Psychology

<b>Psychology Requirements</b>		<b>40</b>
Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 300	Child Development (3)	4-3
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology**	5
Psy 411	Psychology of Sensation and Perception	
OR		
Psy 442	Physiological Psychology	3
Psy 341	Social Psychology	
OR		
Psy 422	Theories of Personality	3
Psy 451	Learning and Memory	3
Psy 452	History and Systems of Psychology	3
Psy 480	Senior Seminar	2
Psy 481	Senior Thesis	2
Psychology Electives		6

**Supporting Area** 21  
The supporting area requires at least 21 hours of one of the following areas: biology, chemistry, computer science, mathematics, physics or other science area approved by the adviser and the department.

**Additional hours of science Electives (from psychology or other)** 9  
7

\*Formerly numbered 311  
\*\*Formerly numbered 312

## Bachelor of Science in Education with a Major in Psychology - Special Education

<b>Core Curriculum Requirements (page 35)</b>		<b>54</b>
<b>Psychology Requirements</b>		<b>36</b>
Psy 100	General Psychology	3
Psy 302	The Exceptional Child	2
Psy 305	Developmental Psychology	4
Psy 310	Educational Psychology	2
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 325	Computers in the Behavioral Sciences	3
Psy 330	Experimental Psychology**	5
Psy 382	Introduction to Behavior Management	3
Psy 432	Abnormal Psychology	3
Psy 442	Physiological Psychology	

OR		
Psy 411	Psychology of Sensation and Perception	3
Psy 412	Meas & Eval in Educ & Psychology	2
Psy 451	Learning and Memory	3
<b>Education Requirements</b>		<b>51</b>
Educ 312	Problems of Teaching Arithmetic in Elementary Schools	3
Educ 324	Introduction to Special Education	3
Educ 329	Pedagogical Theory, Methods and Practices	4
Educ 321	Microteaching	2
Educ 342	Introduction to Developmental Reading	3
Educ 343	Reading in Middle School	3

**Pass Media Competency**  
Educ 402 Foundations of Education 2  
Educ 403 Methods of Teaching the Mentally Handicapped

OR  
Educ 404 Methods of Teaching Children with Learning Disabilities

OR  
Educ 405 Methods of Teaching Children with Behavioral Disorders 3

Educ 407 Diagnostic and Prescriptive Teaching 3  
Educ 420 Introduction to Counseling 2

Educ 430 Language Development of Exceptional Children 3  
Educ 432 Critical Issues in Education 2

Educ 444 Student Teaching-Special Education 8

Educ 446 Practicum in Special Education 3

Educ 470 Diagnostic and Remedial Reading 3

Educ 474 Educational-Psychological Testing in Special Education 3

**141**

\*Formerly numbered 311  
\*\*Formerly numbered 312

This program leads to certification in K-12 in one of three areas - teaching the learning disabled, behavior disordered or mentally handicapped. If the student wishes to be certified in all three areas, the three methods courses - Educ 403, 404 and 405 from the above program must be taken. A practicum must be done for each area of emphasis: MH, LD and BD.

## Minor in Psychology

Psy 100	General Psychology	3
Psy 305	Developmental Psychology (4)	
OR		
Psy 300	Child Development (3)	4-3
Psy 320	Applied Statistics for the Behavioral Sciences*	3
Psy 330	Experimental Psychology**	5
At least one 3 credit hour 400 level psychology course		3
Psychology electives		5
		<b>21</b>

\*Formerly numbered 311  
\*\*Formerly numbered 312

## Suggested Orders of Study

**Bachelor of Arts**  
Major Code 2000  
**Psychology Major**

### Freshman Year

1st Semester		Hours
Course		
Psy 100	General Psychology	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 110, 130 or 131]	3
Psy 120	College Orientation	1
CORE	[Core Electives]	5
		15

### 2nd Semester

CORE	[Eng 102 Comp II (Eng 101)]	3
Psy 305	Developmental Psychology	4
Biology		4
CORE		5
		<b>16</b>

### Sophomore Year

1st Semester		
Psy 320	Applied Statistics (Psy 100 or 110)	3
Psy 411	Sensation and Perception**	
OR		
Psy 341	Social Psychology	3
Supporting Area		3
CORE		5
Foreign Language		3
		<b>17</b>

### 2nd Semester

Psy 325	Computers in Behavioral Sciences (Psy 320)**	3
Psy 442	Physiological Psychology*	
OR		
Psy 422	Theories of Personality**	3
Psychology Elective		3
Elective		3
Foreign Language		3
		<b>15</b>

### Junior Year

1st Semester		
Psy 330	Experimental Psychology (Psy 325)	5



# Psychology

Supporting Area	3	Psychology Elective	3	Psy 320	Statistics (Psy 100 & Math 130 or 131)	3
Foreign Language	3	Elective	3	Psy 310	Educational Psychology	2
CORE	3	Science	3	Psy 325	Comp in Behavioral Sci	3
	14		15	CORE	[Math 120 Math Elem Teacher II]	3
2nd Semester		<b>Junior Year</b>		CORE		18
Psy 451 Learning, Memory and Cognition (Psy 330)**	3	1st Semester				
Psychology Elective	3	Psy 330 Experimental Psychology (Psy 325)	5	2nd Semester		
Supporting Area	6		3	Apply for tentative admission to Teacher Education. Pass C-Base Test.		
Foreign Language	3	Supporting Area	3	Psy 382 Intro to Behavior Management	3	
	15	Science	3	Psy 330 Experimental Psychology	5	
		CORE	14	Psy 302 Exceptional Child	2	
<b>Senior Year</b>		2nd Semester		CORE	6	
1st Semester		Psy 451 Learning, Memory and Cognition (Psy 330)**	3		16	
Psy 480 Senior Seminar	2	Psychology Elective	3	<b>Junior Year</b>		
Psy 452 History & Systems (Psy 330)*	3	Supporting Area	6	1st Semester		
Psychology Elective	3	Science	3	Educ 329 Pedagogical Theory, Methods and Practices	4	
CORE	3		15	Educ 321 Microteaching	2	
Supporting Area	6	<b>Senior Year</b>		<b>Media Competencies</b>		
	17	1st Semester		Educ 324 Intro to Special Education	3	
2nd Semester		Psy 480 Senior Seminar	2	Psy 432 Abnormal Psychology	3	
Psy 481 Senior Thesis**	2	Psy 452 History and Systems (Psy 330)*	3	Psy 411 Sensation and Perception	3	
CORE	6	Psychology Elective	3		15	
Psychology or other electives	9	CORE	3	2nd Semester		
	17	Supporting Area	6	Educ 342 Intro Devlpmntl Rdg.	3	
*Offered fall semester only		2nd Semester	17	Educ 312 Problems Tchg Arith	3	
**Offered spring semester only		Psy 481 Senior Thesis	2	Educ 474 Educational-Psychological Testing	3	
()Prerequisite		CORE	6	Psy 451 Learning & Memory**	3	
[]Department Recommendation		Psychology or other electives	9	Educ 403 Methods Tchg MH	3	
			17	Educ 420 Intro Counseling	3	
<b>Bachelor of Science</b>				OR		
Major Code 2000				Educ 404 Methods Tchg LD		
Psychology Major				OR		
				Educ 405 Methods Tchg BD		
<b>Freshman Year</b>					18	
1st Semester				<b>Senior Year</b>		
Course	Hours			1st Semester		
Psy 100 General Psychology	3	<b>Other Requirements</b>		Educ 343 Reading in Midl Schl	3	
CORE [Eng 101 Comp I]	3	Ten hours are required from math, computer science, chemistry, biology and/or physics, in addition to all other requirements. These replace the foreign language requirement.		470 Diag & Rmdl Rdg	3	
CORE [Math 110, 130 or 131]	3			Educ 446 Pract in MH or LD or BD	3	
Psy 120 College Orientation	1	<b>Bachelor of Science in Education</b>		CORE	3	
CORE	5	Major Code 0846		Psy 411 Sensation and Perception	3	
	15	<b>Psychology-Special Education Major</b>		OR		
2nd Semester				Psy 442 Physiological Psychology	3	
CORE [Eng 102 Comp II (Eng 101)]	3	<b>Freshman Year</b>		Educ 430 Lang Development	3	
CORE [Bio 101 General Biology]	4	1st Semester			18	
CORE	5	Course		2nd Semester		
Psy 305 Developmental Psychology	4	Psy 100 General Psychology	3	Psy 412 Measurement & Evaluation	2	
	16	Educ 100 Orientation to Educ I	1	Educ 402 Foundations of Education	2	
<b>Sophomore Year</b>		CORE [Eng 101 Comp I]	3	Educ 432 Critical Issues	2	
1st Semester		CORE [Math 110, 130 or 131]	3	Educ 407 Diagnostic Prescriptive Teaching**	3	
Psy 320 Applied Statistics (Psy 100)	3	Psy 120 College Orientation	1		3	
Psy 411 Sensation and Perception**	3	CORE	7	Educ 444 Student Teaching	8	
OR			18		17	
Psy 341 Social Psychology*	3	2nd Semester				
Supporting Area	3	CORE [Eng 102 Comp II (Eng 101)]	3	*Offered fall semester only		
CORE	8	CORE	10	**Offered spring semester only		
	14	Psy 305 Developmental Psychology	4	()Prerequisite		
2nd Semester			17	[]Department Recommendation		
Psy 325 Comp in Behavioral Sci (Psy 320)**	3	<b>Sophomore Year</b>		For additional information contact:		
		1st Semester		Dr. Betsy Q. Griffin		
Psy 442 Physiological Psychology*	3	CORE [HPER 370 School Health]	3	Office: Taylor Hall 209		
OR		Educ 200 Orientation to Educ II	1	Phone: 625-9306		
Psy 422 Theories of Personality**	3					



# Physical Education

## Health, Physical Education and Recreation

Robert E. Young Gymnasium 212, 625-9316

**Faculty** Oldham - Head, Ballard, Beard, Cade, Conklin, Cooke, Corn, Evans, Frazier, Hernandez, Lampe, Lantz, Lipira, Nelson, Rutledge, Scheible, Traywick, Turner, Wilson

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level or a combination of both. Students planning to major in this field should refer to page 114 where the teacher education program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-9 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

### Objectives for Physical Education, Grades K-12

The student can: (1) develop units of instruction in physical education that are appropriate to grades K-12, (2) demonstrate competency in teaching physical education at the various grade levels, (3) develop measurement and evaluation techniques for physical education activities in grades K-12, (4) identify characteristics which make one group different from another and effectively plan for the needs of individuals who represent this cultural diversity, (5) develop a unit of instruction appropriate for adapted physical education activities for exceptional children, (6) identify high risk areas of the physical education program and incorporate sound principles related to safety and supervision in planning.

## Bachelor of Science in Education with a Major in Physical Education

### K-12 One Teaching Field

Semester Hours	
<b>Core Curriculum Requirements</b> (page 35)	48
<b>Physical Education Requirements</b>	51
Bio 306 Human Physiology & Anatomy*	5

HPER 251	Fundamentals of Physical Educ Activities I*	3
HPER 252	Fundamentals of Physical Educ Activities II*	3
HPER 255	Theory and Practice of Dance and Exercise*	2
HPER 310	The Elem School Physical Educ Program*	3
HPER 312	Teaching Elem School Physical Educ*	3
HPER 321	Theory and Analysis of Selected Team Sports*	3
HPER 332	Rhythmic Form and Analysis*	2
HPER 335	History and Philosophy of Physical Educ*	2
HPER 340	Motor Learning in Physical Educ*	3
HPER 342	Kinesiological Approach to Movement*	3
HPER 345	Tests & Measurements in Physical Educ*	2
HPER 365	Socio-Psychological Aspects of Physical Educ*	2
HPER 370	School Health Educ (Elem)*	3
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3
HPER 470	Administration of Physical Educ*	2

Select a minimum of five hours from the following:

HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football*	2
HPER 352	Theory of Track & Field*	2
HPER 353	Theory of Soccer*	1
HPER 354	Theory of Volleyball*	1
HPER 360	Theory of Baseball*	2

**Education Certification Requirements**  
(page 118) 30  
129

\*See Prerequisites

## Bachelor of Science in Education with a Major in Physical Education

### 7-12 Two Teaching Fields

Semester Hours	
<b>Core Curriculum Requirements</b> (page 35)	48
<b>Physical Education Requirements</b>	37
Bio 306 Human Physiology & Anatomy*	5
HPER 251 Fundamentals of Physical Educ Activities I*	3
HPER 252 Fundamentals of Physical Educ Activities II*	3

HPER 255	Theory and Practice of Dance and Exercise*	2
HPER 321	Theory and Analysis of Selected Team Sports*	3
HPER 335	History and Philosophy of Physical Educ*	2
HPER 342	Kinesiological Approach to Movement*	3
HPER 345	Tests & Measurements in Physical Educ*	2
HPER 365	Socio-Psychological Aspects of Physical Educ*	2
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3
HPER 470	Administration of Physical Educ*	2

Select a minimum of five hours from the following:

HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football*	2
HPER 352	Theory of Track & Field*	2
HPER 353	Theory of Soccer*	1
HPER 354	Theory of Volleyball*	1
HPER 360	Theory of Baseball*	2

**Education Certification Requirements**  
(page 118) 30

Unrestricted Electives or Second Teaching Field 13  
128

\*See Prerequisites

## Bachelor of Science in Education with a Major in Physical Education

### K-9 Two Teaching Fields

Semester Hours	
<b>Core Curriculum Requirements</b> (page 35)	51
<b>Physical Education Requirements</b>	33
Bio 306 Human Physiology & Anatomy*	5
HPER 310 The Elem School Physical Educ Program*	3
HPER 312 Teaching Elem School Physical Educ*	3
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 332 Rhythmic Form & Analysis*	2
HPER 335 History and Philosophy of Physical Educ*	2
HPER 340 Motor Learning in Physical Educ*	3
HPER 342 Kinesiological Approach to Movement*	3



# Physical Education

HPER 345	Tests & Measurements in Physical Educ*	2
HPER 365	Socio-Psychological Aspects of Physical Educ*	2
HPER 370	School Health Educ(Elem)*	3
HPER 431	Physiology of Exercise*	2
<b>Education Certification Requirements (page 118)</b>		<b>30</b>
<b>Unrestricted Elective or Second Teaching Field</b>		<b>14</b>
		<b>128</b>

\*See Prerequisites

## Minor in Physical Education (non-teaching minor)

	Semester Hours
Bio 306	Human Physiology & Anatomy* 5
HPER 335	History and Philosophy of Physical Educ* 2
HPER 342	Kinesiological Approach to Movement* 3
HPER 365	Socio-Psychological Aspects of Physical Educ* 2
HPER 431	Physiology of Exercise* 2
HPER 450	Prevention and Care of Injuries* 3
Select one of the following:	
HPER 251	Fundamentals of Physical Educ Activities I* 3
HPER 252	Fundamentals of Physical Educ Activities II* 3
HPER 321	Theory and Analysis of Team Sports 3
	20

\*See Prerequisites

## Minor in Coaching

	Semester Hours
Bio 306	Human Physiology & Anatomy* 5
HPER 150	Rules and Officiating of Team Sports 3
HPER 342	Kinesiological Approach to Movement* 3
HPER 450	Prevention and Care of Injuries* 3
Select a minimum of five hours from the following:	
HPER 350	Theory of Basketball* 2
HPER 351	Theory of Football* 2
HPER 352	Theory of Track and Field* 2
HPER 353	Theory of Soccer* 1
HPER 354	Theory of Volleyball* 1
HPER 360	Theory of Baseball* 2

\*See Prerequisites

## Minor in Athletic Training

		Semester Hours
Bio 306	Human Physiology and Anatomy**	5
HPER 220	First Aid	2
HPER 342	Kinesiological Approach to Movement*	3
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of Injuries*	3
HPER 451	Advanced Athletic Training*	2
Select one of the following:		
Rad 111	Medical Terminology	3
DH 310	Nutrition	2
		19-20

\*See Prerequisites

## Health Education Certification for Physical Education Majors and Biology Majors

		Semester Hours
Bio 101	General Biology	
OR		
Chem 101	General Chemistry*	4-5
HPER 160	Personal Health	2
Psy 221	Psychology of Personal Adjustment	3
Soc 221	Marriage & Family	
OR		
Bio 308	Pathophysiology*	3-4
Bio 306	Human Physiology and Anatomy*	5
DH 310	Nutrition	2
HPER 370	School Health Educ (Sec)*	3
Electives:		
HPER 220	First Aid	
OR		
Bio 211	Microbiology*	2-5
		<b>24-29</b>

\*See Prerequisites

## Suggested Orders of Study

### Bachelor of Science in Education Major Code 0835 Physical Education Major K-12

#### Freshman Year

1st Semester		Hours
Course		
CORE	[Eng 101 Comp I]	3
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3
CORE	[Core Electives]	9
Psy 120	College Orientation	1
		17

CORE	[Bio 121 General Zoology]	4
CORE		9
		<b>16</b>

#### Sophomore Year

1st Semester		
Educ 200	Orientation to Educ II	1
HPER 251	Fund of Physical Activities I (30 Hrs)	3
CORE	[PSY 100 Fund of Phys Sci]	5
CORE	[Core Electives]	9
		<b>18</b>

#### 2nd Semester

*Apply for tentative admission to Teacher Education. Pass C-Base Test.*

HPER 252	Fund of Physical Activities II (30 Hrs)	3
HPER 255	Theory of Dance (30 Hrs)	2
HPER 335	Hist & Phil PE (HPER 251)	2
Bio 306	Human Phy & Anat (Bio 121)	5
Psy 310	Educ Psy (Psy 100)	2
CORE	[Core Electives]	3
		<b>17</b>

#### Junior Year

1st Semester		
HPER 310	Elem School PE Prog (HPER 252)	3
HPER 321	Team Sports (HPER 252)	3
HPER 332	Rhy Form and Analy (HPER 252)	2
Psy 305	Developmental Psychology	3
HPER 340	Motor Learn (HPER 310 or 311)	3
HPER 370	School Health-Elem (4 Hrs Bio)	3
Psy 302	Exceptional Child (Psy 100)	3
Coaching Theory Course		1-2
		<b>17-18</b>

#### 2nd Semester

##### Pass Media Competencies

HPER 312	Teach Elem School PE (HPER 310)	3
HPER 342	Kinesiology (Bio 306)	3
HPER 345	Tests & Meas in PE (Psy 310)	2
Educ 329	Pedagogical Theory, Methods and Practices	4
Educ 321	Microteaching	2
Educ 370	Intro to Instructional Media	2
Coaching Theory Course		1-2
Educ 423	Class Manage	2
		<b>19-20</b>

#### Senior Year

##### 1st Semester

##### Apply for Student Teaching

HPER 365	Socio-Psy Aspects of PE (HPER 252)	2
HPER 431	Physiology of Exercise (Bio 306)	2
HPER 450	Care & Prev of Injuries (HPER 342)	3
HPER 470	Adm of PE (20 Hrs HPER)	2
Educ 422	Reading Secondary School	2
Coaching Theory Courses		1-2
Electives		3
		<b>15-16</b>

#### 2nd Semester

Educ 338	Teaching Health & PE	2
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# Courses/Education

Educ 401 Computer Software  
Educ 402 Foundations of Educ  
Educ 432 Critical Issues in Educ  
Educ 464 Student Teaching

( )Prerequisites  
[ ]Department Recommendation

**Bachelor of Science in Education**  
Major Code 0835  
**Physical Education Major 7-12**

## Freshman Year

### 1st Semester

Course  
Educ 100 Orient to Educ I  
CORE [Eng 101 Comp I]  
Psy 100 General Psychology  
CORE [Core Electives]  
Psy 120 College Orientation

### 2nd Semester

CORE [Eng 102 Comp II (Eng 101)]  
CORE [Bio 121 Gen Zoology]  
CORE [Core Electives]

## Sophomore Year

### 1st Semester

HPER 251 Fundamentals of PE Act. I (30 Hrs)  
Educ 200 Orient to Educ II  
CORE [Psy 100 Fund of Phys Sci]  
CORE [Core Electives]

### 2nd Semester

CORE [Core Electives]  
HPER 252 Fund of PE Activities II (30 Hrs)  
HPER 255 Theory of Dance (30 Hrs)  
HPER 335 Hist & Phil of PE (HPER 251)  
Bio 306 Human Phy & Anat (Bio 121)  
Psy 310 Educ Psy (Psy 100)  
CORE [Core Electives]

## Junior Year

### 1st Semester

#### Pass Media Competencies

HPER 321 Team Sports (HPER 252)  
Psy 301 Adolescent Psychology  
Educ 329 Pedagogical Theory, Methods and Practices  
Educ 321 Microteaching  
Educ 423 Classroom Management  
Coaching Theory Course  
CORE [Core Electives]

### 2nd Semester

HPER 342 Kinesiology (Bio 306)  
HPER 345 Tests & Measurements (Psy 310)  
Psy 302 Exceptional Child (Psy 100)  
Coaching Theory Course  
Electives

## Senior Year

### 1st Semester

Apply for Student Teaching  
HPER 365 Socio-Psy Aspects PE (HPER 252) 2  
HPER 431 Physiology of Ex (Bio 306) 2  
HPER 450 Prev & Care of Injuries (HPER 342) 3  
HPER 470 Adm of Phys Educ (20 Hrs HPER) 2  
Educ 422 Reading Secondary School 2  
Electives 3-6  
14-17

### 2nd Semester

Educ 338 Teaching Health & PE 2  
Educ 401 Computer Software 2  
Educ 402 Foundations of Educ 2  
Educ 432 Critical Issues in Educ 2  
Educ 462 Student Teaching 8  
16

( )Prerequisites

[ ]Department Recommendation

For additional information contact:

Dr. Max Oldham  
Office: Young Gymnasium 214  
Phone: 625-9316

## School of Education and Psychology Course Descriptions

### Education (Educ)

**Techniques of Reading (F, S)**  
13.1010-010 2 hrs. cr.  
Designed to improve and enhance reading skills. Vocabulary, comprehension and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

### Orientation to Education I (F, S)

13.0101-100 1 hr. cr.  
An orientation to teacher education required of freshmen who select elementary or secondary education as their major field. A 15 clock hour field based component is included.

### Orientation to Education II (F, S)

13.0101-200 1 hr. cr.  
An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour field based component is included.

### The Exceptional Child (F, S)

13.1004-302 2 hrs. cr.  
A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 100 and Psy 300 or Psy 301.

### Middle School Curriculum (S)

13.1004-303 2 hrs. cr.  
A one semester overview of the middle school curriculum. Focus is on effective teaching and learning strategies for the middle school student. Knowledge of teaching and curricular methods suitable for students in the middle school and a comprehension of the nature of the middle school student both developmentally and academically are highlighted. Designed for education majors seeking middle school certification.

### Science in the Elementary School (F, S)

13.1316-311 2 hrs. cr.  
Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans and learning kits and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 Microteaching. Educ 321 may be taken concurrently with the course.

### Problems of Teaching Arithmetic in Elementary Schools (F, S)

13.1311-312 3 hrs. cr.  
(See Math 312)

Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

### Foundations, Issues and Trends in Early Childhood Education (F) (Demand)

13.1204-316 2 hrs. cr.  
Survey designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological and social foundations of early childhood education. Designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. May be taken concurrently with the junior block courses.

### Curriculum in Early Childhood Education (S) (Demand)

13.1204-317 3 hrs. cr.  
Curriculum development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.

### Early Childhood Methods and Materials (F) (Demand)

13.1204-318 3 hrs. cr.  
Background in teaching strategies and materials for the young child. Fundamentals of designing



# Courses/Education

developmentally appropriate small group, large group and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317, Psy 100 or Psy 300. Must be taken concurrently with Educ 319.

## **Practicum I in Early Childhood Education (F) (Demand)**

13.1204-319 2 hrs. cr.  
Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group and individual learning experiences, develop appropriate materials for children's use and practice appropriate teaching strategies for young children. Prerequisites: Educ 316, Educ 317, Psy 100 and 300. Must be taken concurrently with Educ 318.

## **Microteaching (F, S)**

13.1202-321 2 hrs. cr.  
A required part of Educ 329 to be taken concurrently. Short teaching episodes are prepared, taught and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills.

## **Teaching Social Studies in Elementary School (F, S)**

13.1318-322 2 hrs. cr.  
An introduction to the instructional materials and methods of teaching social studies in the elementary school.

## **Utilizing Family and Community Resources for the Young Child (S) (Demand)**

13.1204-323 2 hrs. cr.  
Resource persons, funding agencies, medical services, special help agencies and job opportunities available to teachers within the community. Provides the opportunity to talk with parents about early childhood concerns. Examines a well-designed early childhood program from a "top down" perspective. Prerequisites: Educ 316.

## **Introduction to Special Education (F, S)**

13.1001-324 3 hrs. cr.  
Introduction to the three areas of special education (LD, MH, BD). This course provides the basis of understanding necessary to learn and apply the methodologies needed for each of these three areas of exceptionalities. A survey of research will be provided. Prerequisites: Educ 302, Psy 100 and Psy 305.

## **Pedagogical Theory, Methods and Practices (F, S)**

13.1001-329 4 hrs. cr.  
Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles and assessment techniques. Microteaching experiences provide an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary and sec-

ondary school classroom provides an opportunity to refine theory into practical applications.

## **Teaching English and Language Arts in Secondary School (S)**

13.1305-332 2 hrs. cr.  
An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.

## **Teaching Science in Secondary School (S)**

13.1316-333 3 hrs. cr.  
An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

## **Teaching Social Science in Secondary School (S)**

13.1317-334 2 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching social science. Part of the Professional Semester.

## **Teaching Music in Secondary School (S)**

13.1312-335 2 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching music. Part of the Professional Semester.

## **Teaching Business in Secondary School (S)**

13.1303-336 2 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching business. Part of the Professional Semester.

## **Teaching Art in Secondary School (F, S)**

13.1314-337 2 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching art. Part of the Professional Semester.

## **Teaching Health and Physical Education in Secondary School (F, S)**

13.1314-338 2 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching physical education and health. Part of the Professional Semester.

## **Teaching Mathematics in Secondary School (S)**

13.1311-339 3 hrs. cr.  
An introduction to the instructional planning, materials and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

## **Language Arts (F, S)**

13.1202-340 2 hrs. cr.  
Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

## **Introduction to Developmental Reading (F, S)**

13.1205-342 3 hrs. cr.  
First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children.

## **Teaching Reading in the Middle School (F, S)**

13.1205-343 3 hrs. cr.  
Follows the introductory course in reading. Needs of the middle school age student population are addressed. Emphasis on assessing student needs, individualizing programs based on needs, reading in the content areas, study skills and recreational reading as a lifetime habit.

## **Teaching Speech and Theatre in Secondary School (S)**

13.1205-344 2 hrs. cr.  
Techniques, methods and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.

## **Teaching Foreign Language in Secondary Schools (S)**

13.1205-345 2 hrs. cr.  
An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

## **Teaching Computer Science in Secondary School (S)**

13.1314-346 2 hrs. cr.  
An introduction to instructional planning, materials selection and methods of teaching computer science/data processing subjects in secondary school. Part of Professional Semester.

## **Corrective Reading Instruction for Classroom Teachers**

13.1315-350 2 hrs. cr.  
Acquaint the preservice teacher seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.

## **Practicum in Early Childhood Education (F, S)**

13.1204-375 2 hrs. cr.  
Supervised participation in teaching on the early childhood level at the MSSC Child Development Center on campus. Experiences include designing and conducting developmentally appropriate lesson plans, setting up learning centers in the classroom and evaluating the development of young children.

## **Use of Computer Software in the Classroom (F, S)**

13.0301-401 2 hrs. cr.  
Use of microcomputers, with emphasis on evaluation, selection and uses of educational software.

## **Foundations of Education (F, S)**

13.0901-402 2 hrs. cr.  
Historical, philosophical and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice and application of the teaching-learning theory and practice.



# Courses/Education

## Methods of Teaching the Mentally Handicapped (F)

13.1006-403 3 hrs. cr.  
Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302 and Educ 324.

## Methods of Teaching Children with Learning Disabilities (S)

13.1006-404 3 hrs. cr.  
Designed for the prospective or in-service teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.

## Methods of Teaching Children with Behavioral Disorders (F)

13.1005-405 3 hrs. cr.  
Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.

## Practicum in Child Study: Uses and Interpretation of Informal Observation Techniques (S) (Demand)

13.1204-406 2 hrs. cr.  
Methods of observation used in the early childhood classroom. In addition to one hour of lecture per week, students will be assigned to a public school prekindergarten setting for 48 clock hours in order to use systematic observation techniques which will culminate in an oral and written case study report. Prerequisites: Psy 100 and 300, Educ 316, Educ 317, Educ 318 and Educ 319.

## Diagnostic and Prescriptive Teaching (S)

13.0301-407 3 hrs. cr.  
Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or non-handicapped learners. Prerequisites: Educ 302 and Educ 324. Educ 474 is strongly recommended.

## The Young At-Risk Child: Screening, Assessment and Prescription (S) (Demand)

13.1204-408 5 hrs. cr.  
An in-depth study of standardized observation and testing tools and screening instruments. Supervised administration, scoring and interpretation of these assessments in early childhood education, as well as a case report are major requirements of this course. Prescriptive instruction based on information from the above, provides a culminating activity for this holistic approach. Prerequisites: Educ 316, Educ 317, Educ 318, Educ 319, Psy 310.

## Topics in Early Childhood Education (S) (Demand)

13.1204-409 2 hrs. cr.  
A senior level course designed to allow the early childhood student to assimilate and to synthesize the information gained from all other early

childhood education courses. Provides the student with an in-depth study of current research in the field. A senior thesis course that requires a major paper based on student generated research, the findings of which are to be reported orally to interested faculty and fellow students. Prerequisites: Educ 316, Educ 317, Educ 318, Educ 319, Educ 323, Educ 406 and Educ 408. May be taken concurrently with Educ 406 and Educ 408.

## Individualized Curriculum Development (F, S)

13.0301-412 2-3 hrs. cr.  
Designed for elementary and secondary education majors. Instructional programming for the individual student, strategies for individualizing and mastery learning, grouping for instruction, organizing a variety of learning activities and materials, instructional evaluation, home-school-community relations and comparing alternative educational systems. Prerequisite: Admission to teacher education.

## Introduction to Counseling (F, S)

13.1101-420 3 hrs. cr.  
Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

## Teaching Reading in Secondary Schools (F, S)

13.1315-422 2 hrs. cr.  
Research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develops an awareness of the role of reading to content area classroom instruction. Presents strategies and materials utilized in diagnostic/prescriptive teaching.

## Classroom Management (F, S)

13.1299-423 2 hrs. cr.  
Concepts, skills and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy and other management techniques. To be taken concurrently with Educ 329.

## Language Development of Exceptional Children (F)

13.1012-430 3 hrs. cr.  
Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

## Critical Issues in Education (F, S)

13.0401-432 2 hrs. cr.  
Exploration of current problems with special

regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.

## Utilizing Family and Community Resources for the Young Child (S)

13.1204-433 2 hrs. cr.  
Resource persons, funding agencies, medical services, special help agencies and job opportunities available to teachers of young children in the community.

## Materials and Methods of Individualizing Instruction (S)

13.0301-435 3 hrs. cr.  
Concepts, methods and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 329.

## Student Teaching-Elementary (F, S)

13.1202-442 8 hrs. cr.  
Supervised participation on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

## Student Teaching-Special Education (F, S)

13.1202-444 8 hrs. cr.  
Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (ten weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block. The student will be required to divide the 10 week experience into two segments: Five weeks at the elementary level and five weeks at secondary level. Prerequisite: Please see Requirements for Admission to Student Teaching.

## Practicum in Special Education (F, S)

13.1202-446 3 hrs. cr.  
Clinical experience in special education settings with one of three exceptional populations; learning disabled (LD), mentally handicapped (MH) or behaviorally disordered (BD) learners. Must be preceded by the appropriate methods course for each of the three areas of exceptionalities. A practicum experience is required for each of the three areas of exceptionalities (LD, MH and BD). Prerequisites: Educ 302, Educ 324 and the appropriate methods course for each practicum taken, i.e., Educ 403, Educ 404 and/or Educ 405.



# Courses/Psychology

## Student Teaching-Secondary (F, S)

13.1205-462 4-8 hrs. cr.  
Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

## Student Teaching-EL-SEC (K-12) (F, S)

13.1205-464 8 hrs. cr.  
Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The K-12 teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

## Diagnostic and Remedial Reading (F, S)

13.1315-470 3 hrs. cr.  
Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials and management being stressed. Prerequisites: Educ 342, Educ 343.

## Practicum in Diagnosis of Reading Difficulties (F)

13.1205-471 3 hrs. cr.  
Practice of administering, interpreting and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470 and Educ 474 or Psy 471.

## Practicum in Remediation of Reading Difficulties (S)

13.1315-472 3 hrs. cr.  
Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

## Educational-Psychological Testing in Special Education (S)

13.0604-474 3 hrs. cr.  
Comprehensive study of the various psycho-educational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

## Seminar in Problems of Education (Demand)

13.9999-498 1-3 hrs. cr.  
A weekly seminar for upper division majors.

Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

## Independent Study (F, S)

13.9999-499 1-3 hrs. cr.  
Structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field and approval of adviser and department head.

## Psychology (Psy)

### General Psychology (F, S)

42.0101-100 3 hrs. cr.  
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement.

### General Psychology-Honors (F)

42.0101-100 3 hrs. cr.  
Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

### Self-Awareness and Career Planning

42.0601-105 1 hr. cr.  
Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

### College Orientation (F, S)

42.9999-120 1 hr. cr.  
A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

### Psychology 201

42.9999-201 1 hr. cr.  
Theory and methods of telephone crisis line (hotline) paraprofessional functioning: interview skills, ethics, dealing with specific types of callers and problems, resource review and procedures and rules of Joplin Crisis Intervention, Inc. One hour lecture each week. Prerequisites: Sophomore standing and psychology major, or advance permission of instructor.

### Psychology of Personal Adjustment (F)

42.9999-221 3 hrs. cr.  
Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills. Strongly recommended as a second course (following Psy 100) for psychology majors.

## Special Topics in Psychology (Demand)

42.9999-298 1-3 hrs. cr.  
Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

## Child Development (F, S)

42.0701-300 3 hrs. cr.  
Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100.

## Adolescent Psychology (F, S)

42.0701-301 3 hrs. cr.  
Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100.

## The Exceptional Child (F, S)

13.1001-302 2 hrs. cr.  
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 300 or Psy 301.

## Developmental Psychology (F, S)

42.0701-305 4 hrs. cr.  
Various aspects of human development from conception, infancy, childhood, transience to adolescence will be examined, including, physical, emotional, social and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

## Educational Psychology (F, S)

13.0801-310 2-3 hrs. cr.  
Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning and the environmental influences of behavior. Prerequisite: Psy 300 or Psy 301.

## Applied Statistics for the Behavioral and Natural Sciences (F, S)

42.1501-320 3 hrs. cr.  
Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 and Math 110, 130 or 131.

## Computers in the Behavioral Sciences (S)

42.1301-325 3 hrs. cr.  
Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection and report generation. Prerequisite: Psy 320.



# Courses/Physical Education

## Experimental Psychology (F, S)

42.0801-330 5 hrs. cr.  
The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.

## Social Psychology (F)

42.1601-341 3 hrs. cr.  
Introduction to the study of individuals' thoughts, feelings and behaviors as they are influenced by their social environment, including interpersonal, intragroup and intergroup influences. Prerequisite: Psy 100.

## Introduction to Behavior Management (S)

42.9999-382 3 hrs. cr.  
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 100.

## Psychology of Sensation and Perception (S)

42.0801-411 3 hrs. cr.  
Includes classical and modern psychophysical techniques. The physiology of various sensory system, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.

## Measurement and Evaluation in Education and Psychology (F, S)

42.1301-412 2-3 hrs. cr.  
Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

## Theories of Personality (S)

42.1001-422 3 hrs. cr.  
Survey of major contemporary theories of personality, issues of personality assessment and current research. Prerequisite: Psy 100 and junior standing.

## Abnormal Psychology (S)

42.9999-432 3 hrs. cr.  
Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders." Prerequisite: 7 hours of psychology or permission of instructor.

## Clinical Psychology (F)

42.0201-435 3 hrs. cr.  
Survey of history, current methods, guild issues and future developments. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.

## Physiological Psychology (F)

42.1101-442 3 hrs. cr.  
Structure and function of the nervous system

from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.

## Psychology of Human Resources (S)

42.0301-450 3 hrs. cr.  
An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits and legal environment. Experimental and theoretical methods will be used. Prerequisite: Psy 100 or MM 350 or permission of instructor.

## Learning, Memory and Cognition (S)

42.0301-451 3 hrs. cr.  
Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence and psychology-law. Prerequisite: Psy 330.

## History and Systems of Psychology (F)

42.9999-452 3 hrs. cr.  
Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.

## Individual Testing (F)

42.1301-471 3 hrs. cr.  
Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the department head.

## Educational-Psychological Testing (S)

42.1301-474 3 hrs. cr.  
Psycho-educational assessment techniques, including educational, intellectual and psychomotor. Emphasis on translating assessment data to remedial programs.

## Senior Seminar (F)

42.9999-480 2 hrs. cr.  
For senior psychology majors. Information and experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment are presented. Students become familiar with the professional interests and activities of the psychology department faculty in preparation for selecting senior thesis topics.

## Senior Thesis (S)

42.9999-481 2 hrs. cr.  
With a faculty supervisor the student designs and conducts a research project resulting in a written thesis and an oral presentation. Prerequisite: Psy 480.

## Seminar in Psychology (Demand)

42.9999-498 1-3 hrs. cr.  
Specialized knowledge and/or current research in psychology. Topics vary by interest and de-

mand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked "(H)" in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instructor.

## Independent Study (Demand)

42.9999-499 1-3 hrs. cr.  
Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.

## Health, Physical Education and Recreation (HPER)

### Individual Physical Education (F)

13.1314-100 1 hr. cr.  
Adapted physical activity based on needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course.

### Introduction to Physical Activities (F, S)

13.1314-101 1 hr. cr.  
Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week.

### Lifetime Wellness (F, S)

13.1314-103 2 hrs. cr.  
Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.

### Rules and Officiating of Team Sports (F, S)

13.1314.150 3 hrs. cr.  
Knowledge and skills for officiating basketball, volleyball, softball, baseball and football; officiating laboratory required in some areas. Open to all students.

### Personal Health (F)

13.1307-160 2 hrs. cr.  
Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.

### First Aid (S)

13.1304-220 2 hrs. cr.  
Designed to complete the standard course of the American Red Cross in First Aid.

### Varsity Activities: Cheerleading (F, S)

13.1314-222 1 hr. cr.  
Practice for cheers, chants and stunts. Open only to MSSC cheerleaders; class meets twice a week.

### Fundamentals of Physical Education Activities I (F)

13.1314-251 3 hrs. cr.  
Study of the skills and understanding of selected activities: games, sports and individual



# Courses/Physical Education

activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

**Fundamentals of Physical Education Activities II (S)**  
13.1314-252 3 hrs. cr.  
Skills and understanding of selected activities: sports, gymnastics and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

**Theory and Practice of Dance and Exercise**  
13.1314-255 2 hrs. cr.  
Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hrs.

**The Elementary School Physical Education Program (F)**  
13.1314-310 3 hrs. cr.  
Procedures and techniques for planning the curriculum for elementary school physical education. Prerequisite: HPER 252, physical education majors only.

**Physical Education for the Elementary School (F, S)**  
13.1314-311 2 hrs. cr.  
Methods and materials needed for directing games, skills, rhythm and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.

**Teaching Elementary School Physical Education (S)**  
13.1314-312 3 hrs. cr.  
Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 physical education majors only.

**Theory and Analysis of Selected Team Sports (F)**  
13.1314-321 3 hrs. cr.  
Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

**Internship in Physical Therapy Procedures (F, S)**  
13.1314-325 1-8 hrs. cr.  
Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing and approval of departmental committee.

**Rhythmic Form and Analysis (F)**  
13.1314-332 2 hrs. cr.  
Analysis of dance forms showing how complex

music and dance forms are evolved. Prerequisite: HPER 252.

**History and Philosophy of Physical Education (S)**  
13.1314-335 2 hrs. cr.  
Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

**Motor Learning in Physical Education (F)**  
13.1314-340 3 hrs. cr.  
Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

**Kinesiological Approach to Movement (S)**  
13.1314-342 3 hrs. cr.  
A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.

**Tests and Measurements in Physical Education (S)**  
13.1314-345 2 hrs. cr.  
Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.

**Theory of Basketball (S)**  
13.1314-350 2 hrs. cr.  
Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: 60 hrs.

**Theory of Football (F)**  
13.1314-351 2 hrs. cr.  
Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: 60 hrs.

**Theory of Track and Field (S)**  
13.1314-352 2 hrs. cr.  
Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: 60 hrs.

**Theory of Coaching Soccer**  
13.1314-353 1 hr. cr.  
Organization and management of soccer competition. Systems of offense and defense, rules, strategy and fundamentals of soccer are studied. Prerequisite: 60 hrs.

**Theory of Coaching Volleyball**  
13.1314-354 1 hr. cr.  
Organization and management of volleyball competition. Offensive and defensive systems, rules,

strategy, drills and fundamentals are studied. Prerequisite: 60 hrs.

**Theory of Baseball (F)**  
13.1314-360 2 hrs. cr.  
Organization and management of a school baseball program including individual techniques, team play and problems in coaching of baseball. Prerequisite: 60 hrs.

**Socio-Psychological Aspects of Physical Education (F, S)**  
13.1314-365 2 hrs. cr.  
Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effect of sports on society is also studied. Prerequisite: HPER 252.

**School Health Education (F, S)**  
13.1307-370 3 hrs. cr.  
Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on health and nutrition programs for children for elementary majors. Prerequisite: 5 hrs. biology.

**Physiology of Exercise (F, S)**  
13.1314-431 2 hrs. cr.  
Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

**Prevention and Care of Injuries (F, S)**  
13.1314-450 3 hrs. cr.  
Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.

**Advanced Athletic Training (S)**  
13.1314-451 2 hrs. cr.  
A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

**Administration of Physical Education (F, S)**  
13.1314-470 2 hrs. cr.  
Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

**Seminar in Health or Physical Education (Demand)**  
13.1314-498 1-3 hrs. cr.  
A thorough study of an advanced problem in health or physical education for selected stu-



## Courses/Physical Education

dents. Prerequisite: Senior standing, permission of department head.

### Independent Study (F, S)

13.1314-499 1-3 hrs. cr.  
Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 GPA in

major and permission of department head.

### The Following Courses May Be Repeated Three Times

Course No.	Hours cr.
13.1314-161 Varsity Football (F)	.....1
13.1314-162 Varsity Basketball (F)	.....1
13.1314-163 Varsity Volleyball (F)	.....1
13.1314-171 Varsity Cross Country (F)	.....1

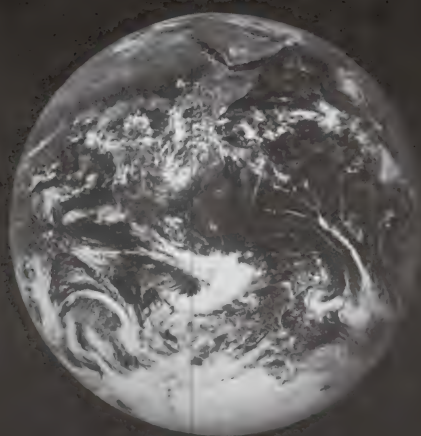
13.1314-172 Varsity Track and Field (S)	.....1
13.1314-180 Varsity Golf (S)	.....1
13.1314-182 Varsity Baseball (S)	.....1
13.1314-183 Varsity Softball (S)	.....1
13.1314-191 Varsity Soccer (F)	.....1
13.1314-192 Varsity Tennis (S)	.....1
13.1314-250 Dance and Exercise (S)	.....1
13.1314-261 Elementary Swimming (F)	.....1
13.1314-292 Fitness and Weight Training (F)	...1







# THE SCHOOL OF TECHNOLOGY





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# School of Technology

## School Dean

James K. Maupin  
Donald L. Seneker, Assistant Dean  
Police Academy 113, 625-9328

## Degrees and Majors

### Bachelor of Science

Computer Information Science  
Criminal Justice Administration  
Environmental Health Technology  
Management Technology (in  
conjunction with the School of  
Business)  
Medical Technology  
Nursing

### Associate of Science

Computer Aided Drafting and Design  
Computer Analysis  
Computer Assisted Manufacturing  
Technology  
Computer Programming  
Dental Hygiene  
Environmental Health Technology  
Law Enforcement  
Nursing  
Pre-engineering  
Radiologic Technology

### Associate of Arts (Preprofessional)

General (Paramedic)  
Prepharmacy

### Certificate (one year)

Computer Science and Information  
Systems

### Certificate (less than 30 hours, offered through Continuing Education)

Basic Police Recruit  
Emergency Medical Technician  
Emergency Medical Technician-  
Paramedic

### Options and Emphases:

Computer Information Science  
As a Second Teaching Field  
Computer Science  
Information Systems

### Minors: (See departments)

Computer Information Systems  
Computer Science  
Criminal Justice Administration  
Military Science

## Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under, the leadership of professional educators who also have the advantage of a background of actual work experience in business, industry, health care and government. This instruction is further

enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think, are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in conjunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisory committees made up of persons from business, industry, government and the professions. Input from the advisory committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

## Goals

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;
2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;
5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions that serve a variety of area needs;
7. to offer quality programs and in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

## Aviation

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Mo.

For additional information contact:

Mr. James K. Maupin  
Office: 113 Police Academy  
Phone: 625-9328

OR

Mr. Donald L. Seneker  
Office: 101 Police Academy  
Phone: 625-9519



# Computer Information Science

## Computer Information Science

Matthews Hall 223, 625-9383

**Faculty** Earney - Head, Herr, Kelley, Kirchner, Mays, Oakes, Tunnell

## Bachelor of Science

The increasing use of computers in business, government, science, industry, education and the home has created a broad spectrum of opportunities for employment, service or personal use of computing machines and techniques. To assist the graduate in exploiting these opportunities the following curricula are offered; A **bachelor of science in computer information science** has two options, one is oriented toward information systems (Curriculum Code 5105); the other is oriented toward computer science (Curriculum Code 5106). There is an opportunity to augment the curriculum to the individual's liking through the judicious selection of computer and/or professional electives.

## Bachelor of Science in CIS

### Information Systems Option

#### Core Curriculum Requirements (page 35)

Math 131 Finite Math (or Math 130, College Algebra which may substitute for Finite Mathematics) should be taken early as one is a prerequisite for Accounting and a co-requisite for Programming I.

#### Computer Core

Comp 110	Programming I (Pascal)	3
Comp 210	Block Structured Programming	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 240	Statistical Computer Applications	3
Comp 302	Systems Concepts and Data Comm	3
CIS 305	Microcomputer Applications	3
CIS 320	Operations Modeling	3
CIS 334	Advanced Structured COBOL	3
CIS 350	Data Structures	3
CIS 400	Computer Colloquium (1 cr. hr.)	1
CIS 410	Systems Analysis and Design	3
CIS 425	Database Design and Implementation	3

CIS 450	Operating Systems Software	3
<b>Professional Concentration</b>		<b>18</b>
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 325	Managerial Accounting	3
GB 321	Business Statistics	3
MM 350	Prin of Management	3
MM 441	Organizational Behavior	3

**Professional Electives** 18  
May be selected from upper division computer information science or upper division business courses with consent of major adviser. Students considering pursuing a graduate degree, should consult their major adviser for recommendations in selection of courses that will satisfy prerequisites for the degree they seek.

#### General Electives

As needed to satisfy the academic requirement of 128 credit hours.

## Suggested Order of Study

### Bachelor of Science

Major Code 5105

#### Computer Information Science (Option I, Information Systems)

#### Freshman Year

1st Semester		Hours
Course		
Comp 110	Programming I	3
Math 131	Finite Math	3
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 Psychology]	3
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
		<b>16</b>

#### 2nd Semester

Comp 210	Block Structured Prog	3
CORE	[Econ 180 Amer Econ System]	
OR		
[Econ 201 & 202 Prin of Econ (2 semester)]		3
CORE	[Eng 102 Comp II (WI)]	3
CORE	[Bio 101 General Biology]	4
CIS 305	Microcomp Appl	3
		<b>16</b>

#### Sophomore Year

1st Semester		
Comp 240	Stat Comp Appl (WI)	3
Comp 234	Bus DP Tech (COBOL)	3
Acct 201	Prin of Accounting I	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE		3
		<b>17</b>

#### 2nd Semester

CIS 334	Adv Struc COBOL	3
Comp 230	Rpt Prog Gen	3

Acct 202	Accounting II	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
GB 321	Business Statistics I	3
		<b>15</b>
<b>Junior Year</b>		
1st Semester		
Acct 325	Managerial Acct	3
CORE	[Comm 100 Oral Comm]	3
CIS 320	Ops Modeling (WI)	3
GB 301	Business Law I	3
Professional Elective		3
CORE	[Hist 110 U.S. History]	3
		<b>18</b>

#### 2nd Semester

CIS 350	Data Structures	3
MM 350	Prin of Management	3
Comp 302	Syst & Data Comm	3
CIS 321	Interactive RPG	3
CORE	[Literature]	3
		<b>15</b>

#### Senior Year

1st Semester		
CIS 410	Systems Anal & Des	3
CIS 450	Op Sys Software (WI)	3
CORE	[Hist 120 U.S. History]	3
MM 441	Org Behavior	3
Professional Elective		3
		<b>15</b>

#### 2nd Semester

CIS 425	Database Design & Implem	3
CIS 400	Colloquium	1
CIS 498	Seminar in CIS	3
CORE	[Art 110 Art Appreciation]	3
CORE	[GB 310 International Gov't]	3
Professional Elective		3
		<b>16</b>

## Bachelor of Science in CIS

### Computer Science Option

Semester Hours

#### Core Curriculum Requirements

(page 35) 43  
Math and physics below satisfy eight additional credit hrs. of Core Curriculum requirements.

#### Computer Core

Comp 110	Programming I (Pascal)	3
Comp 210	Block Structured Programming	3
Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 240	Statistical Computer Applications	3
CIS 320	Operations Modeling	3
CIS 330	Assembly Language	3
CIS 335	Programming in C	3
CIS 340	Computer Simulation	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 400	Computer Colloquium	1
CIS 425	Database Design and Implementation	3



# Computer Science

CIS 430	Introduction to Artificial Intelligence	3
CIS 450	Operating Systems Software	3
CIS 460	Programming Languages	3
<b>Professional Concentration</b>		<b>38</b>
Math 150	Calculus I	5
Math 250	Calculus II	5
Math 260	Calculus III	5
Math 350	or 431 (Numerical Analysis) Select 1	3
Phys 151	Elementary College Physics	5

## Professional Electives

15 cr. hrs. of professional electives (e.g., comp info sci. courses or upper div. science or math). (Math 310 or 361 are suggested.) Students considering pursuing a graduate degree, should consult their major adviser for recommendations in selection of courses that will satisfy prerequisites for the degree they seek.

## General Electives

As needed to satisfy the academic requirement of 128 credit hours.

## Suggested Order of Study

### Bachelor of Science

Major Code 5106

### Computer Information Science (Option II, Computer Science)

#### Freshman Year

1st Semester		Hours
Course		
Comp 110	Programming I	3
Math 150	Calculus I	5
CORE	[Eng 101 Comp I (WI)]	3
CORE	[Psy 100 Psychology]	3
CORE	[HPER 103 Wellness]	2
CORE	[Psy 120 College Orientation]	1
		<b>17</b>

#### 2nd Semester

Comp 210	Blk Struc Prog	3
Math 250	Calc II	5
CORE	[Eng 102 Comp II (WI)]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 101 Physical Activity]	1
		<b>16</b>

#### Sophomore Year

1st semester		Hours
Comp 234	Bus DP Tech (COBOL)	3
Math 260	Calc III	5
Phys 151	College Physics	5
CORE	[Comm 100 Oral Comm]	3
		<b>16</b>

#### 2nd Semester

Comp 240	Stat Comp Appl (WI)	3
CIS 330	Assembler	3
CIS 350	Data Structures	3
CORE	[Art 110 Art Appreciation]	3
CORE	[Hist 110 U.S. History]	3
		<b>15</b>

#### Junior Year

##### 1st Semester

CIS 335	Programming in C	3
CIS 340	Computer Simulation	3
CIS 320	Ops Modeling (WI)	3
CORE	[Hist 120 U.S. History]	3
CORE	[Econ 180 Am Econ Sys]	3
CORE	[Phil 201 Philosophy]	3
		<b>18</b>

##### 2nd Semester

CIS 360	Computer Graphics	3
CIS 425	Database Systems	3
Professional Elective		3
CORE	[GB 310 International Gov't]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
		<b>15</b>

#### Senior Year

##### 1st Semester

CIS 430	Intro to AI	3
CIS 450	Operating Sys (WI)	3
Professional Elective		3
Professional Elective		3
CORE	[Eng 261 Masterpieces]	3
		<b>15</b>

##### 2nd Semester

CIS 400	Colloquium	1
CIS 460	Prog Languages	3
Math 350	Numerical Analysis	3
Professional Elective		3
Professional Elective		3
Elective		3
		<b>16</b>

## Minor in CIS

A minor in either information systems or computer science may be earned in conjunction with a baccalaureate degree in another discipline. The requirement is that 21 hours be completed as follows:

## Information Systems Minor (Option I)

Comp 110	Programming I (Pascal)	
Comp 230	Report Program Generator AND CIS 321 Interactive RPG/400	

OR

Comp 234	Bus. D. P. Techniques (COBOL) AND CIS 334 Advanced COBOL	
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CIS 410	Information Systems Analysis	
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An additional 9 hours selected from the following:

Comp 200, 210, 230, 234, 302  
CIS 305\*, 321, 334, 330, 335, 350, 425, 450, 498  
MM 237\*, 337

\*Only one of these two may be counted for credit toward minor.

## Computer Science Minor

### (Option II)

Comp 110	Programming I (Pascal)	
Comp 210	Block Structured Programming	
CIS 330	Assembly Language OR CIS 335 Programming in C	
CIS 350	Data Structures	
An additional 9 hours selected from the following:		
Comp 200, 234, 240, 301		
CIS 305, 320, 321, 330, 334, 335, 340, 360, 410, 425, 430, 450, 460, 498		
Math 350, 371, 431, 452		

## Associate of Science

Two associate of science (A.S.) degrees have the goals of preparing the student for entry-level employment in business, industry or government in the general field of computing. Both of these two-year programs require 25-26 hours of Core Curriculum (see Academic Regulations, page 35). Some Core Curriculum requirements can meet degree requirements of the department and/or course prerequisites (suggested below).

## Computer Programming

### Associate of Science, Information Systems Emphasis

Semester Hours  
**64**

### Core Curriculum Requirements (page 35)

**25-26**

Math 130, College Algebra OR Math 131, Finite Mathematics (preferred) should be taken early as one is a co-requisite for programming and accounting.

### Computer Core

**24**

Comp 110	Programming I (Pascal)	3
Select 1:	Comp 120 (FOR), 115 (BAS), 200 (BAS), 230 (RPG), 234 (COBOL)	3
Comp 210	Block Structured Programming	3



# Criminal Justice

Select 1:	Comp 230 (RPG), 234 (COBOL)	3
Comp 240	Statistical Computer Applications	3
Comp 302	Systems Concepts and Data Communications	3
CIS 305	Microcomputer Applications	3
CIS	Elective	3
Business Core		12
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 325	Managerial Accounting	3
Econ 180	American Economics System	3
Electives	(to achieve at least 64 total hours)	

## Suggested Order of Study

Associate of Science, Information Systems Emphasis  
Major Code 5103  
Computer Programming

### Freshman Year

Comp 110	Programming I	3
Math 131	Finite Math	3
CORE	[Eng 101 Comp I (WI)]	3
CORE	[PSc 120 U.S., State, Local]	3
CORE	[Psy 120 College Orientation]	1
CORE		3
Comp 210	Blk Struc Prog	3
Acct 201	Prin of Accounting I	3
Comp xxx	Program Language	3
CORE	[Fine Art Elective]	3
CORE	[Phys 100 or Bio 101]	4-5

### Sophomore Year

Comp 234	Bus. D.P. Tech (COBOL)	3
Comp 240	Stat Comp Appl (WI)	3
Acct 202	Prin of Accounting II	3
CORE	[Econ 180 Amer Econ System]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Comm]	3
Comp 302	Syst & Data Comm	3
CIS 305	Microcomputer Appl	3
Acct 325	Managerial Acct	3
CIS	Elective	3
Elective		1
CORE	[HPER 101 Physical Activity]	16

## Computing Analysis

Associate of Science, Computer Science Emphasis

Semester Hours  
64-69

Core Curriculum 18

Math and physics hours below satisfy eight hours of additional Core Curriculum requirements.

### Computer Core

Comp 110	Programming I (Pascal)	3
Comp 210	Block Structured Programming	3
Comp 240	Statistical Computer Applications	3
Select 1:	Comp 115, 120, 200, 230, 234, CIS 330, 335	3
CIS 330	Assembly OR CIS 335 Programming in C	3
CIS 350	Data Structures	3
CIS	Elective	3
Mathematics Core		15
Math 150	Calculus I (5)	
Math 250	Calculus II (5)	
Math 260	Calculus III (5)	
Physics Core		5
Phys 151	Elementary Physics I	
Electives	(to achieve at least 64 total hours)	

## Suggested Order of Study

Associate of Science Degree  
Major Code 5104  
Computing Analysis

### Freshman Year

1st Semester		
Course		Hours
Comp 110	Programming I	3
CORE	[Psy 120 College Orientation]	1
Math 150	Calc I	5
CORE	[Psy 100 General Psychology]	3
CORE	[Eng 101 Comp I (WI)]	3

### 2nd Semester

Comp 210	Block Structured Prog	3
Math 250	Calculus II	5
Phys 151	Elementary Physics I	5
Computer Elective		3

### Sophomore Year

1st Semester		
Comp 240	Stat Comp Appl (WI)	3
CIS 335	Programming in C	3
CORE	[Comm 100 Oral Comm]	3
Math 260	Calculus III	5
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2

### 2nd Semester

CIS 350	Data Structures	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
CIS 330	Assembly	3
CIS	Elective	3

CORE		3
Comp xxx	Elective	3
		18

**Certificate of Achievement:** A 30-hour curriculum that provides elements of Core Curriculum, computer science and business is available. This curriculum does not lead to a degree, but a certificate is awarded by the College to acknowledge work completed.

Eng 101	Comp I (WI)	3
Math 130	or higher	3
Comp 105	Intro to Microcomputer Use	3
OR		
CIS 305	Microcomputer Applications	3
Comp 110	Programming I (Pascal)	3
Select two:	Comp 115, 120, 230, 234	6
One additional	3, 4 or 5 cr. Core Curriculum course;	3-5
One additional	3 cr. hr. course from student's area of application, interest, or emphasis;	3
Two additional	3 cr. hr. courses—	
General Elective.		6

## Computer Science as a Second Teaching Field

The State Department of Elementary and Secondary Education does not yet certify computer science as a teaching field. Please contact us if interested in pursuing computer science certification. We will develop a program as soon as they define its requirements.

For additional information contact:

Mr. Steve Earney  
Office: Matthews Hall 224A  
Phone: 625-9383

## Criminal Justice Administration

Police Academy 102, 625-9302

**Faculty** Spurlin - Director, Mosher, Richards, Seneker, Terry, Whittle, Williams, Wolf

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are required to schedule an interview with the director of the programs before enrolling.

The criminal justice activities of the Col-



# Criminal Justice

lege are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Associated with the crime lab, a complete photographic laboratory, with both automated and color equipment, serves not only for student use, but also to process crime scene and "mug shot" photos for area police and sheriffs. Most of the College's instructional photography support is also done in this lab.

Missouri law requires new officers to obtain "basic training" in a certified "Regional Police Academy." Missouri Southern operates the regional academy for this portion of Missouri and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students, ROTC cadets and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

The B.S. in criminal justice administration is designed for persons planning careers in law enforcement, juvenile justice, correc-

tions, probation and parole, private or industrial security, federal investigative agencies and related positions and for Military Police officers (when combined with the ROTC program). Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

The College also offers the associate of science in law enforcement (page 145).

## Bachelor of Science in Criminal Justice Administration

		Semester Hours
<b>Core Curriculum Requirements (page 35)</b>		<b>51</b>
<b>Criminal Justice Requirements</b>		<b>25</b>
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	2
LE 210	Criminal Procedures	3
LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
Select one from the following:		<b>16</b>
CJAd 230	Introduction to Security	3
CJAd 325	Physical Security	3
CJAd 330	Loss Prevention	3
Select one from the following:		<b>3</b>
CJAd 320	Probation and Parole	3
CJAd 412	Correctional Practices	3
Select one from the following:		<b>3</b>
CJAd 410	Juvenile Procedures	3
CJAd 411	Juvenile Corrections	3
The student must also select a minimum of 21 credit hours from the following list of major course electives:		
LE 180	Basic Police Academy*	6
LE 200	Criminal Investigation I	3
LE 298	Special Topics*	1-8
CJAd 230	Introduction to Security	3
CJAd 210	Basic Photography	3
CJAd 325	Physical Security*	3
CJAd 260	Legal & Technical Aspects of Firearms	3
CJAd 300	Criminal Investigation II	3
CJAd 310	Traffic Accident Invest & Control	3
CJAd 320	Probation and Parole*	3

CJAd 330	Loss Prevention Techniques*	3
CJAd 431	Administration of Security Systems*	3
CJAd 340	Basic Color Photography*	3
CJAd 350	Fish and Game Enforcement	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3
CJAd 412	Correctional Practices	3
CJAd 450	Criminal Evidence*	3
CJAd 490	Internship in Criminal Justice Administration*	1-8
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3

\*See course descriptions for prerequisites.

The major in criminal justice administration also requires the student to complete 15 hours of classwork in the supportive area:

Soc 110	Introduction to Sociology	3
Sociology Elective		3
Psy 100	General Psychology	3
Psychology Elective		3
Comp 105	Intro to Micro Use	3

General electives selected with adviser approval among which must be sufficient "upper division" courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper division hours. A minor is highly recommended.

## Minor in Criminal Justice Administration

The minor consists of 18 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law and nine additional hours of LE or CJAd courses, six of which must be upper division.

## Suggested Order of Study

**Bachelor of Science Degree**  
Major Code 2105  
**Criminal Justice Administration Major**

Freshman Year		Hours
1st Semester		
Course		
LE 100	Intro to Law Enforcement	3



# Dental Hygiene

LE 110 Police Organization and Administration  
CORE [Eng 101 Comp I]  
Comp 105 Intro to Micro Use  
CORE [Comm 100 Oral Comm]  
CORE [Psy 120 College Orientation]  
CORE [HPER 101 Physical Activity]

## 2nd Semester

LE 150 Interview and Report Writing  
CORE [Eng 102]  
CJAd Required course  
Math 110 Intro College Math, or higher  
CORE [Bio 101 General Biology]  
CORE [HPER 103 Lifetime Wellness]

## Sophomore Year

### 1st Semester

LE 210 Criminal Procedures  
CORE [Hist 110 U.S. History]  
CORE [Phys 100 Fund of Phys Sci]  
CORE [Soc 110 Intro to Sociology]  
CJAd Required Course

### 2nd Semester

LE 250 Criminal Law  
LE 290 Police Supervision and Management  
Psy 100 [General Psychology]  
CORE [Econ 180 Amer Econ System]  
Elective [A minor is suggested]  
CORE [Literature]

## Junior Year

### 1st Semester

CJAd Required Course  
CORE Elective [International Studies]  
Soc Elective [Supportive Area]  
CORE PSc 120 Gov't: U.S., State, Local  
CORE Elective [Fine Art]

### 2nd Semester

CJAd Elective  
CORE [Fine Art]  
Psy Elective Supportive Area  
CORE [Hist 120 U.S. History]  
Elective [A minor is suggested]

## Senior Year

### 1st Semester

CJAd Elective  
CJAd Elective  
CJAd Elective  
Elective [A minor is suggested]  
Elective [A minor is suggested]

### 2nd Semester

CJAd Elective  
CJAd Elective  
CJAd Elective

Elective [A minor is suggested] 3  
Elective [A minor is suggested] 3  
15  
[] Department Recommendations  
All electives must be approved by a CJAd adviser prior to enrollment.

16 For additional information contact:  
Jack G. Spurlin  
Office: 103 Police Academy  
Phone: 625-9651

## Dental Hygiene

17 Technology Building 101, 625-9379

Faculty Scorse - Director, Crnic, Karst, White

3 The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information; performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

3 Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

3 Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

3 Admission to Missouri Southern does not

automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene and consideration is given to demonstrated scholastic ability and test scores, references and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1 so that interview appointments can be scheduled for the middle of March.

Evidence of satisfactory completion of the prerequisites, which include general zoology, intermediate algebra (or higher math) and English composition, should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$600 for uniforms, safety glasses, gloves, books and graduation pins; \$800 for instruments; approximately \$600 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 78 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.



# Drafting and Design

## Associate of Science Degree in Dental Hygiene

Semester Hours	
<b>Core Curriculum Requirements</b> (page 35)	25
<b>(10 hours satisfied by prerequisites)</b>	
<b>Dental Hygiene Requirements</b>	61
DH 101 Fundamentals of Dental Hygiene I	4
DH 102 Fundamentals of Dental Hygiene II*	4
DH 140 Dental Morphology	1
DH 150 Oral Histology and Embryology	3
DH 160 Dental Radiology	2
DH 190 Clinical Dental Hygiene I*	3
DH 200 Dental Health Education	3
DH 210 Perio-Pathology	3
DH 220 Dental Materials	3
DH 290 Clinical Dental Hygiene II*	5
DH 310 Nutrition	2
DH 320 Pharmacology	2
DH 330 Ethics and Community Dentistry*	3
DH 390 Clinical Dental Hygiene III*	5
Bio 231 Medical Microbiology*	5
Bio 240 Radiation Biology*	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Introductory Chemistry*	5

\*See course descriptions for prerequisites

## Suggested Order of Study

Associate of Science  
Major Code 5203  
Dental Hygiene Major

### Prerequisites

Bio 121 General Zoology	4
CORE [Eng 101 Comp I]	3
Math 30 Intermediate Algebra (or higher Math Course)	3

### Freshman Year

Fall Semester	
Course	Hours
DH 101 Fundamentals of Dental Hygiene I	4
DH 140 Dental Morphology	1
DH 150 Oral Histology and Embryology	3
Bio 306 Human Physiology and Anatomy	5
Chem 100 Introductory Chemistry	5
	18

Spring Semester	
DH 102 Fundamentals of Dental Hygiene II	4

DH 160 Dental Radiology	2
DH 220 Dental Materials	3
DH 310 Nutrition	2
Bio 231 Medical Microbiology	5
Bio 240 Radiation Biology	3
	19

### Summer Session

DH 190 Clinical Dental Hygiene I	3
DH 210 Perio-Pathology	3
	6

### Sophomore Year

Fall Semester	
DH 200 Dental Health Education	3
DH 290 Clinical Dental Hygiene II	5
DH 320 Pharmacology	2
Psy 100 General Psychology	3
CORE [Comm 100 Oral Comm]	3
CORE [HPER 103 Lifetime Wellness]	2
	18

### Spring Semester

DH 330 Ethics and Community Dentistry	3
DH 390 Clinical Dental Hygiene III	5
CORE [Humanities or Fine Arts]	3
CORE [Hist 110, Hist 120 or PSc 120]	3
CORE [HPER 101 Physical Activity]	1
Soc 110 Intro to Sociology	3
	18

[Department Recommendation]

For additional information contact:  
Sandra A. Scorse, D.D.S.  
Office: Technology Building 102  
Phone: 625-9600 / 625-9379 / 625-9711

## Computer Aided Drafting and Design

Ummel Technology Building 101, 625-9567

Faculty Bartholet, Karimi

The computer aided drafting and design curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as manual drafters and CAD technicians in the fields of manufacturing, civil, architecture or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and Core Curriculum courses. Computer Aided Drafting and Design hardware and software are used to supplement traditional manual instruction in all courses. Built into the curriculum is an emphasis on both low-end and high-end P.C. based CAD software. As the students study the various fields within drafting, they are given opportunities to apply theory through the various CAD software packages available within the department.

The department also functions as an internationally recognized and authorized training center for AUTOCAD software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Student internships and independent studies allow the student to join the real world while in school and provide invaluable references for job placement later. Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in management technology with an emphasis in business or technology which includes Computer Integrated Manufacturing (CIM), which opens the door into the ground floor of an exciting new field. CIM applications are now unfolding throughout both international and American industry.

## Associate of Science Degree in Computer Aided Drafting and Design

Semester Hours	
<b>Core Curriculum Requirements</b> (page 35)	25
<b>Drafting Requirements</b>	28
CADD 110 Introductory Drafting	3
CADD 115 Intro to Computer Aided Drafting	2
CADD 120 Descriptive Geometry*	3
CADD 130 Machine Drafting*	3
CADD 202 Tool Design or 204 Mech Design*	3
CADD 210 Technical Illustration*	3
CADD 220 Architectural Drafting OR	
CADD 330 Computerized Machine Design *	3
CADD 230 Survey and Mapping OR	
CADD 310 Computer Automated Process Planning *	3
CADD 260 Computer Aided Drafting*	3
CAMT 100 Intro to Machine Tool Processes	4
Electives (at least 9 hours)	9
Art 132 Intro to Design	3
Art 230 Basic Form	3
CJAD 210 Basic Photography	3
Comp 105 Intro to Micro Use	3
Comp 115 Computing I	3
Comp 120 Computing II	3



# Pre-engineering

Comp 200	Advanced Personal Computing w/graphics	3
CIS 360	Interactive Computer Graphics	3
Acct 201	Principles of Acct I	3
Acct 202	Principles of Acct II	3
GB 101	Intro to Business	3
CAMT 160	Inspection and Gaging	2
Math 112	Trigonometry	3
CADD 298	Special Topics in Drafting & Design*	1-3
CADD 490	Internship in Drafting & Design*	1-8
CADD 498	Seminar in Drafting & Design*	1-3
CADD 499	Independent Study*	1-3

\*See course description for prerequisites

## Suggested Order of Study

### Associate of Science Degree

Major Code 5303

### Computer Aided Drafting and Design Major

#### Freshman Year

Course	Hours
CADD 110 Intro to Drafting	3
CADD 115 Intro to Computer Aided Drafting	2
Math 30 OR	
Math 130 Intermediate or College Algebra	3
CAMT 100 Intro Mach Tool Proc	4
CORE [Humanities or Fine Arts]	3
CORE [Psy 120 College Orientation]	1
	16

#### 2nd Semester

CADD 120 Descriptive Geometry	3
CADD 130 Machine Drafting	3
CORE [Eng 101 Comp I]	3
Comm 101 Oral Comm	3
CORE [HPER 101 Physical Activity]	1
CORE [HPER 103 Lifetime Wellness]	2
Technical Elective	3
	18

#### Sophomore Year

Course	Hours
CADD 202 or 204 Tool Design or Mechanical Design	3
CADD 230 Survey and Mapping	
OR	
CADD 310 Computer Automated Process Planning	3
CORE (Phys 100 Fund of Phys Sci)	5
Technical Electives	6
	17
2nd Semester	
CADD 210 Technical Illustration	3
CADD 260 Computer Aided Drafting	3

CADD 220 Architectural Drafting OR	
CADD 330 Computerized Machine Design	3
CORE (Psy 100 or Soc 110)	3
CORE (Hist 110, Hist 120 or PSc 120)	3
	15

[J]Department Recommendation  
(P)Prerequisites

For additional information contact:  
Mr. Francis Bartholet  
Office: Technology Building 112  
Phone: 625-9567

## Pre-engineering

Reynolds Hall 208/212, 625-9719/625-9540

### Faculty Knapp, Martin, Phillips, Sloan

The math and physical science departments at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a copy of the booklet should contact the mathematics or physical science department.

	Semester	Hours
<b>Core Curriculum requirements**</b>		<b>25</b>
<b>Pre-engineering Requirements</b>		<b>45</b>
Phys 250 General Physics I*		5
Phys 260 General Physics II*		5
Phys 312 Statics*		3
Chem 101 General Chemistry I***		5
Math 150 Calculus with Analytical Geometry I*		5
Math 250 Calculus with Analytical Geometry II*		5
Math 260 Calculus with Analytical Geometry III*		5

Comp 120 Fortran****	3
Econ 201 Prin of Economics (Macro)	3
Elective (Math or Physics)***	3
Elective (Humanities/Social Science/Drafting/Chemistry)***	3
	70

\*See course descriptions for prerequisites.  
\*\*Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

\*\*\*The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

\*\*\*\*UMC prefers Comp 110 and requires this for electrical and computer engineering students.

## Suggested Order of Study

### Associate of Science Degree

Major Code 5499

### Pre-engineering Major

#### Freshman Year

Course	Hours
CORE [Eng 101 Comp I]	3
Math 150 Calculus I	5
CORE [Hist 110 OR 120 U.S. History]	3
Chem 101 General Chemistry I	5
CORE [Psy 120 College Orientation]	1
CORE [HPER 101 Physical Activity]	1
	18

#### 2nd Semester

Math 250 Calculus II	5
Phys 250 General Physics I	5
Econ 201 Prin of Economics	3
CORE Humanities of Fine Arts/Drafting/Chem II*	3-5
	16-18

#### Sophomore Year

Course	Hours
Math 260 Calculus III	5
Phys 260 General Physics II	5
Comp 120 Fortran**	3
Core Sociology or Psychology*	3
CORE [HPER 103 Lifetime Wellness]	2
	18

#### 2nd Semester

Math 322 Differential Eq.	3
Phys 372 Electronic Circuits	4
Phys 341 Thermal Physics	
OR	
Phys 322 Classical Mechanic	3-4
CORE [Comm 100 Oral Comm]*	
AND/OR	
CORE Humanities/Fine Arts	3-6
	16-17



# Environmental Health

Summer Session  
Phys 312 Statics

3

\*Suggested elective (not strict requirements)  
\*\*UMC prefers Comp 110 and requires this for electrical and computer engineering students.

For additional information contact:  
Dr. Larry Martin  
Office: Reynolds Hall 212  
Phone: (417) 625-9540  
OR  
Dr. Russell Phillips  
Office: Reynolds Hall 208  
Phone: (417) 625-9719

## Environmental Health Technology

Reynolds Hall 313, 625-9731

**Faculty** Adams - Coordinator, Tillman

The College offers the four-year bachelor of science in environmental health with two options and a two-year associate of science degree.

### Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Mo. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

### Option II

This bachelor of science degree requires four complete academic years at Missouri Southern, including a semester internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

The associate of science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Mo. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in environmental health technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the associate of science degree. The student may complete the requirements at either

school first, but is a member of only one student body at a time.

## Bachelor of Science

### Environmental Health Technology Major

Semester Hours  
**Core Curriculum Requirements**

(page 35) 51\*

**Biology and Environmental Health Core**

34

Bio 101 General Biology 4

Bio 112 Botanical Survey 3

Bio 122 Zoological Survey 3

Bio 211 Microbiology

OR

Bio 231 Medical Microbiology 5

Bio 290 Research Methods in

Biology 2

Bio 306 Human Physiology and

Anatomy

OR

Bio 431 Animal Physiology 5

EHT 312 Environmental Biology 4

EHT 370 Environmental Health 4

EHT 372 Environmental Regulations

& Program Administration 4

**Mathematics and Physical Science Requirements**

30

Math 140 College Algebra and

Trigonometry 5

Chem 101 General Chemistry I 5

Chem 102 General Chemistry II 5

Chem 201 Analytical Chemistry I 5

Chem 300 Introduction to Modern

Organic Chemistry 5

Phys 151 Elementary College Physics 5

College Computer Requirement

Bio 303 Computer Applications in

Biology

OR

Approved Computer Course 2-3

Option I Water and Wastewater

Management

Water and Wastewater Technical

School 30

Upper Division Hours Awarded 20

135-136

**Option II Institutional and Community Health**

16-17

Select approved courses to complete a 30 hr. block from the following. The block must include EHT 450 Internship in Environmental Health.

Bio 240 Radiation Biology 3

Bio 361 Parasitology 4

Bio 402 General Ecology 4

Bio 481 Aquatic Ecology 4

EHT 298 Selected Topics in

Environmental Health 1-8

EHT 373 Solid Waste Management 2

EHT 375 Vector Control 2

EHT 377 Community Sanitation 4

EHT 380 Epidemiology 2

EHT 385 Food, Milk and Consumer

Protection 4

EHT 450 Internship in

Environmental Health 1-8

EHT 483 Environmental Assessment

2

EHT 498 Seminar in Environmental

Health 1-3

EHT 499 Problems in Environmental

Health 1-3

Geol 300 Environmental Geology 4

135-136

Majors satisfy the writing intensive (WI) requirement by completing ENG 101 and 102 (or their equivalent) and three WI classes in environmental health, biology or a supporting area.

\*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

## Associate of Science in Environmental Health Technology

Semester Hours

**Core Curriculum Requirements\***

(page 35) 25

**Biology and Environmental Health Core**

8-9

Bio 101 General Biology 4

Bio 231 Medical Microbiology 5

OR

EHT 312 Environmental Biology (if

WWTS completed) 4

Physical Science Requirement 10

Chem 101 General Chemistry I 5

Chem 102 General Chemistry II 5

Water and Wastewater Technical

School 30

86-87

\*9 hrs. satisfied by required biology and mathematics courses.

## Suggested Order of Study

**Associate of Science Degree**

Major Code 5299

**Environmental Health Major**

\*\*Prescribed 48 week course at Water and Wastewater School-30 Hrs.



## Law Enforcement

### Freshman Year

#### 1st Semester

Course	Hours
Chem 101 General Chemistry I	5
Bio 101 General Biology	4
Math 140 Algebra and Trigonometry	5
CORE [Psy 120 College Orientation]	1
CORE [HPER 101 Physical Activity]	1

#### 2nd Semester

Chem 102 General Chemistry II	5
EHT 312 Environmental Biology	4
CORE [Eng 101 Comp I]	3
CORE [Literature or Fine Arts]	3
CORE [Hist 110 or PSc 120]	3

#### Summer Session

CORE [Psy 100 or Soc 110]	3
Comm 100 Oral Comm	3
CORE HPER 103 Lifetime Wellness	2

#### [ ] Department Recommendations

For additional information contact:

Dr. Wayne Adams  
Office: 313A Reynolds Hall  
Phone: 625-9731  
or  
Mr. David Tillman  
Office: Reynolds Hall 317D  
Phone: 625-9698

**\*\*This work may be taken prior to entering Southern or after completing work on the Crowder College campus.**

## Suggested Order of Study

### Bachelor of Science Degree

Major Code 1299

### Environmental Health Technology Major

#### Freshman Year

##### 1st Semester

Course	Hours
Bio 101 General Biology	4
CORE [American Cultural Studies]	3
CORE [Eng 101 Comp I]	3
CORE [HPER 101 Physical Activity]	1
CORE [Psy 120 College Orientation]	1
Math 140 College Algebra & Trigonometry	5

#### 2nd Semester

Bio 112 Botanical Survey (Bio 101)	3
CORE [Eng 102 Comp II]	3
CORE [American Cultural Studies]	3
CORE [Humanities and Fine Arts]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [Humanities and Fine Arts]	3

#### Summer Session

CORE [Behavioral Science]	3
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CORE [American Cultural Studies]	3
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### Sophomore Year

#### 1st Semester

Bio 122 Zoological Survey (Bio 101)	3
Bio 211 General Microbiology (Bio 101)	3
OR	
Bio 231 Medical Microbiology (Bio 101)	5
Chem 101 General Chemistry I (Math 140)	5
CORE [Comm 100 Oral Comm]	3

#### 2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Bio 303 Computer Applications in Biology (consent)	16

OR

approved computer course	2-3
CORE [American Cultural Studies]	3
Phy 151 Elem College Physics (Math 140)	5

#### Summer Session

CORE [International Cultural Studies]	3
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### Junior Year

#### 1st Semester

Bio 306 Human Physiology and Anatomy (Bio 121 or consent)	5
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OR

Bio 431 Animal Pysiology (10 hrs. Biology)	5
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EHT 312 Environmental Biology (Bio 101 & consent)	4
---	---

Chem 201 Analytical Chemistry I (Chem 102)	5
--	---

CORE [Humanities and Fine Arts]	3
---------------------------------	---

#### 2nd Semester

Bio 290 Research Methods in Biology (Bio 112 or 122)	2
--	---

Chem 300 Introduction to Modern Organic Chemistry (Chem 102)	5
--	---

EHT 372 Environmental Regulations and Program Administration (EHT 312 & 370 or consent)	4
---	---

EHT 370 Environmental Health (EHT 312 & 370 or consent)	4
---	---

### Senior Year

Option I Water and Wastewater Management-Three trimesters at the Water and Wastewater Division of Crowder College. This work may be taken prior to entering Missouri Southern.

### Option II Institutional and Community Health

Select approved courses to complete a 30 block from the following. The block must

include EHT 450 Internship in Environmental Health.

Bio 240 Radiation Biology (Bio 306 & Chem 101 or consent)	3
Bio 361 Parasitology (Bio 122)	4
Bio 402 General Ecology (Bio 112 & 122)	4
Bio 481 Aquatic Ecology (Bio 122)	4
EHT 298 Selected Topics in Environmental Health (Bio 101, 112 & 122)	1-8
EHT 373 Solid Waste Management (EHT 312 & 370 or consent)	2
EHT 375 Vector Control (EHT 312 & 370 or consent)	2
EHT 377 Community Sanitation (EHT 312 & 370 or consent)	4
EHT 380 Epidemiology (Bio 290, EHT 312 & 370 or consent)	2
EHT 385 Food, Milk and Consumer Protection (Bio 211 or 231, EHT 312 & 370 or consent)	4
EHT 450 Internship in Environmental Health (consent)	1-8
EHT 483 Environmental Assessment (EHT 312 & 370 or consent)	2
EHT 498 Seminar in Environmental Health (consent)	1-3
EHT 499 Problems in Environmental Health (consent)	1-3
Geol 300 Environmental Geology (Phys 100)	4

135-136

#### [ ] Departmental Recommendation

() Prerequisite

Program must satisfy Writing Intensive (WI) requirements (page 35).

For additional information contact:

Dr. Wayne Adams  
Office: Reynolds Hall 313A  
Phone: 625-9731  
or  
Mr. David Tillman  
Office: Reynolds Hall 317D  
Phone: 625-9698

## Law Enforcement

Police Academy 102, (417) 625-9302

**Faculty** Spurlin - Head, Mosher, Richards, Seneker, Terry, Whittle, Williams, Wolf

The associate of science degree in law enforcement helps prepare students for entrance into police work, a field which



# Manufacturing

has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. (See page 139)

## Associate of Science in Law Enforcement

Semester Hours  
Core Curriculum Requirements (page 35) 26

(6 Core hours are satisfied by taking the following required courses)

### Law Enforcement Requirements 39

Soc 110	Introduction to Sociology	3
Elective Behavioral Science		3
Elective Behavioral Science		3
Comp 105	Introduction to Micro Computer Use	3
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	2
Elective-Adviser Approved		
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
LE 290	Police Supervision and Management	3
LE 250	Criminal Law	3
Psy 100	General Psychology	3
PSc 120	Gov't: U.S., State, Local	3
HPER 220	First Aid	2
		65

## Suggested Order of Study

### Associate of Science Degree

Major Code 5505

### Law Enforcement Major

#### Freshman Year

##### 1st Semester

Course	Hours
CORE [Eng 101 Comp I]	3
CORE 110 Intro to College Math	3
Comp 105 Intro to Micro Computer Use	3
LE 100 Intro to Law Enforcement	3
LE 110 Police Organization and Administration	2
CORE [Psy 120 College Orientation]	1
CORE [HPER 101 Physical Activity]	1
	16

##### 2nd Semester

Psy 100 General Psychology	3
CORE [Phys 100 Fund of Phys Sci]	5

CORE [Soc 110 Intro to Sociology]	3
LE 150 Interview and Report Writing	2
LE 210 Criminal Procedures	3
	16

#### Sophomore Year

##### 1st Semester

CORE [Comm 100 Oral Comm]	3
CORE [HPER 103 Lifetime Wellness]	2
CORE [PSc 120 Gov't: U.S., State, Local]	3
LE 200 Criminal Investigation	3
Elective Behavioral Science Elective	3
Elective Fine Arts Elective	3
	17

##### 2nd Semester

Elective Behavioral Science Elective	3
HPER 220 First Aid	2
LE 250 Criminal Law	3
LE 290 Police Supervision and Management	3
Elective Adviser Approved	3
Elective Adviser Approved	3
	17

[J]Department Recommendation

For additional information contact:

Jack G. Spurlin

Office: Police Academy 103

Phone: 625-9651

## Computer Assisted Manufacturing Technology

Ummel Technology Building 101, 625-9327

Faculty Schultz, Karimi

The computer assisted manufacturing technology curriculum leads to an associate of science degree in manufacturing technology. The curriculum prepares individuals for employment as technicians or entry level manufacturing/industrial engineers.

The requirements for the degree provide a broad base of technical and general education courses which will assist the individual in securing employment and responding to future technological changes. The use of computers is emphasized throughout the program. The College is a National Authorized AutoCAD Training Institution. The CAM/CAD departments at Southern have received recognition in world class competition for innovative developments in the computer graphics field and robotics. This learning environment, combined with a faculty who have direct links with industry, insures instruction current with the latest technological developments.

Computer assisted manufacturing technol-

ogy majors are required to take courses in mathematics, physical science, computer programming, computer aided drafting and design, computer numerical control, robotics and automation. The foundation using todays emerging technologies is taught with the use of manual manufacturing machinery the first year. These courses are combined with manufacturing and technical electives to provide a curriculum that will assist the individual in developing the strong, yet flexible, technical background needed in today's international environment.

Students who complete the associate of science degree in computer assisted manufacturing technology can expand their education by pursuing a baccalaureate degree in management technology, with an emphasis in computer integrated manufacturing (C.I.M.). The management technology degree has been developed to instill in the technician/engineer a management perspective for overseeing potential projects.

## Associate of Science in Computer Assisted Manufacturing Technology

Semester Hours  
Core Curriculum Requirements (page 35) 25

### Computer Assisted Manufacturing Technology Requirements 28

CAMT 100	Intro to Machine Tool Processes	4
CAMT 105	Intermediate Mach Tool Processes*	4
CAMT 200	Fundamentals of Machine Tool Programming*	4
CAMT 250	Computer Assisted Manufacturing*	4
CAMT 290	Production Planning & Control*	3
CADD 110	Introductory Drafting	3
CADD 130	Machine Drafting*	3
Math 112	Trigonometry	3
COMP 105	Intro Micro Use	3
<b>Manufacturing Technology Electives (at least 10 hours)</b>		<b>10</b>
CAMT 160	Inspection and Gaging*	2
CAMT 260	Fundamentals of Metallurgy	3
CAMT 310	Manufacturing Data Processing*	3
CAMT 330	Quality Control & Reliability*	3
CADD 115	Intro to Computer Aided Drafting	2



# Medical Technology

CADD 202	Tool Design*	3
CADD 204	Mechanical Design*	3
CADD 260	Computer Aided Drafting*	3
CADD 310	Computerized Production Planning & Control Systems*	4
CADD 330	Computer Machine Design*	3
CAMT 298	Special Topics in Manufacturing Tech*	1-8
CAMT 490	Internship in Manufacturing Tech*	1-8
CAMT 499	Independent Study in Manufacturing Tech	1-3

CAMT 290	Production, Planning & Control	3
CORE	[Psy 100 or Soc 110]	3
Technical Electives or Internship		4

For additional information contact:  
Mr. Donald J. Schultz  
Office: Ummel Technology Building 115  
Phone: 625-9327

## Medical Technology

Reynolds Hall 210, 625-9376

**Faculty** BaiaMonte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo.; and Research Medical Center, Kansas City, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based

school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

## Bachelor of Science with a Major in Medical Technology

	Semester	Hours
<b>Core Curriculum Requirement</b>		<b>39</b>
(page 35) 51**		
<b>Biology Requirement</b>		<b>24-25</b>
Bio 121	General Zoology	4
Bio 231	Fundamentals of Medical Microbiology*	5
Bio 305	Genetics*	4
Bio 306	Human Physiology and Anatomy*	5
Bio 456	Immunology*	3
Either		
Bio 361	Parasitology*	4
OR		
Bio 362	Virology*	3
<b>Chemistry Requirement</b>		<b>24-25</b>
Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300	Introduction to Modern Organic Chemistry*	5
OR		
Chem 351	Biochemistry*** 4	
OR		
Chem 421	Analytical Chemistry II* 5	
<b>Other Requirements</b>		<b>24-25</b>
Phys 151	Elementary College Physics I*	5
Phys 152	Elementary College Physics II*	3
Math 140	Algebra and Trigonometry	5
Comp 115	Computing I	3

## Suggested Order of Study

### Associate of Science Degree

Major Code 5399

### Computer Assisted Manufacturing Technology Major

#### Freshman Year

1st Semester		Hours
Course		
CAMT 100	Intro Machine Tool Processes	4
CADD 115	Intro CAD	2
Math 130	College Algebra	
OR		
Math 030	Intermediate Algebra	3
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 120 College Orientation]	1
CADD 110	Intro Drafting	3
		16

#### 2nd Semester

CAMT 105	Intermediate Machine Tool Processes	4
CADD 130	Machine Drafting	3
Math 112	Trigonometry	3
CORE	[Eng 101 Comp I]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER Lifetime Wellness]	2

#### Sophomore Year

1st Semester		
CAMT 200	Fundamentals of Mach Tool Programming	4
Comp 105	Intro Micro Use	3
CORE	(Hist 110, Hist 120 or PSc 120)	3
CORE	(Phys 100 Physical Science)	5
Technical Electives		3

#### 2nd Semester

CAMT 250	Computer Assisted Manufacturing	4
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# Military Science

400 Level Medical Technology Courses  
(at Hospital) 32  
**143-146**

\*See course descriptions for prerequisites.

\*\*Required biology, physics and mathematics courses simultaneously satisfy Core Curriculum and major requirements.

\*\*\*St. John's, Springfield, Mo., requirement

## Suggested Order of Study

**Bachelor of Science Degree**

Major Code 1223

**Medical Technology Major**

### Freshman Year

1st Semester

Course	Hours
Chem 101 General Chemistry I (Algebra & Trig)	5
Math 140 Algebra and Trig	5
CORE [Eng 101 Comp I]	3
Comp 115 Computing I	3
CORE [Psy 120 College Orientation]	1
	<b>17</b>

2nd Semester

Chem 102 General Chemistry II (Chem 101)	5
Bio 121 General Zoology	4
CORE [History 110 U.S. History]	3
CORE [Eng 102 Comp II]	3
CORE [Econ 180 Amer Econ System]	3
	<b>18</b>

### Sophomore Year

1st Semester

Chem 201 Analytical Chemistry I (Chem 102)	5
Bio 231 Fundamentals of Medical Microbiology	5
CORE [Psy 100 or Soc 110]	3
CORE [Humanities & Fine Arts]	3
CORE [HPER 101 Physical Activity]	1
Elective [MT 200 Intro to Medical Technology]	1
	<b>18</b>

2nd Semester

Chem 300 Intro to Modern Organic Chemistry (Chem 102)	5
Bio 305 Genetics	4
CORE [Comm 100 Oral Comm]	3
CORE [Humanities & Fine Arts]	3
CORE [Hist 120 or Hist 320 U.S. History]	3
	<b>18</b>

### Junior Year

1st Semester

Phys 151 Elementary College Physics I (Math 140)	5
Bio 306 Human Physiology and Anatomy (Bio 121)	5

Bio 361 Parasitology (Bio 121)	
OR	
Bio 362 Virology (Bio 231)	3-4
CORE [HPER 103 Lifetime Wellness]	2
CORE [Humanities & Fine Arts]	3
	<b>18-19</b>

2nd Semester

Chem 421 Analytical Chemistry II (Chem 201)	
OR	
Chem 351 Biochemistry (Chem 300)	4-5
Phys 152 Elementary College Physics II (Phys 151)	3
Bio 456 Immunology	3
CORE [Psc 120 Gov't: U.S., State, Local]	3
CORE [International Cultural Studies]	3
	<b>16-17</b>

### Senior Year

1st Semester

(At an approved School of Medical Technology)	
MT 401 Clinical Chemistry	10
MT 403 Hematology	6
	<b>16</b>

2nd Semester

(At an approved School of Medical Technology)	
MT 402 Clinical Microscopy	1
MT 404 Serology	3
MT 405 Clinical Microbiology	7
MT 406 Immunohematology	3
MT 407 Special Topics in Medical Technology	2
	<b>16</b>

() Prerequisites

[] Department Recommendations

For additional information contact:

Dr. Vernon Baiafonte

Office: Reynolds Hall 213

Phone: 625-9541

OR

Dr. Melvyn Mosher

Office: Reynolds Hall 242

and Police Academy 105

Phone: 625-9733 or 625-9382

## Military Science

Police Academy 109, 625-9545

**Faculty** Dunn - Head, Rivette, Ross, Brown

Military science provides an additional dimension to a student's educational program. Students who participate in military science courses receive leadership, managerial and confidence-building training that will be of great value to them in any career they seek.

The military science program at Missouri Southern is divided into two elective pro-

grams, the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit and do not have uniform or appearance requirements. Basic Course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include leadership, survival, marksmanship, rappelling, land navigation, world conflicts, terrorism and history of ROTC. These courses will also qualify students for the Advanced Course in the event that they elect to continue in the military science program.

The Advanced Course includes the junior and senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They also will attend ROTC Advanced Camp, normally during the summer between the junior and senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behavior, written communication skills, military history, mathematical reasoning and computer literacy. \*Course work in management and national security policy are recommended but not required. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition and manda-



# Nursing

tory fees. They also pay the student \$100 a month during each academic year and a book stipend of \$200 per semester.

Students with at least two academic years remaining in their course of study can complete the Basic Course requirements by participating in Basic Camp. Pay and allowances are received for Basic Camp participants. (See MS 298)

All students desiring to enroll in the Advanced Course who are not U.S. citizens must have department permission prior to enrolling.

Students with prior military service or military science training, including Junior ROTC, may be eligible for advanced placement in the military science program. A minor in military science may be obtained by completion of not less than 18 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for freshman and sophomore-level courses. Advanced Course students are furnished all required uniform items.

\*To determine suitable courses, contact the military science department.

## Nursing

Kuhn Hall 210, 625-9322

## Associate of Science Degree

**Faculty** Box - Head, Ackiss, Ayton, Elgin, Jacobs, Ketchum, Ross, Shippee

The nursing program provides intensive preparation for an exciting career. Upon satisfactory completion of the associate of science degree in nursing, the graduate is eligible to apply to write the examination for licensure as a registered nurse (R.N.), barring restrictions stated in the state of Missouri Nursing Practice Act 335.066,1,2 (1)-(14) of the state of Missouri. This program is accredited by Missouri State Board of Nursing and National League for Nursing.

In addition to admission to Southern, applicants are required to apply for admission to the department of nursing in Kuhn Hall. Applications should be submitted prior to December 15 preceding the fall semester in which the applicant wishes to enter. Each completed application is reviewed by the department of nursing Se-

lection Committee. Criteria for selection include: ACT scores or college GPA, nursing entrance test, science courses, references and interviews with nursing faculty. Class size is limited, therefore, admission is competitive. A list of projected expenses is available from the department of nursing.

Core Curriculum requirements should be selected with nursing adviser approval. Nursing courses must be completed in the prescribed sequence. Supporting science courses must be completed with a grade of "C" or above as listed in the suggested order of study and course descriptions.

Development, interference with body processes, altered body defenses, altered mobility and safety serve as organizing themes in the nursing courses. Legal issues, national and international, cultural diversity, pharmacology, nutrition and rehabilitation are integrated in the courses. Computer assisted instruction is included in classroom and clinical teaching. Students provide direct care to patients under the supervision of nursing faculty in a variety of clinical settings.

## Associate of Science Degree in Nursing

	Semester	Hours
<b>Core Curriculum Requirements</b>		
(page 35)		25
<b>(Additional satisfied by required courses)</b>		
<b>Nursing Requirements</b>		
(See course descriptions for prerequisites)		52
Nurs 100	Introduction to Nursing Process	6
Nurs 110	Nursing Process with the Developing Family*	9
Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing*	4
Nurs 220	Nursing Process with Adults I (WI)*	9
Nurs 240	Nursing Process with Adults II*	9
Bio 306	Human Physiology and Anatomy*	5
Chem 100	Introduction to Chemistry*	5
Bio 231	Fundamentals of Medical Microbiology*	5
		77

\*See course descriptions for prerequisites.

## Suggested Order of Study

Associate of Science Degree  
Major Code 5208  
Nursing Major

### Freshman Year

1st Semester		Hours
Course		
Nurs 100	Intro to Nursing Process	6
Bio 306	Human Physiology and Anatomy *	5
CORE	[Eng 101 Comp I]	3
Math 30	Intermediate Algebra (or Math 130)	3
		17

\*Bio 121 must be completed prior to Bio 306.

\*Bio 306 must be completed prior to or concurrent with Nurs 100.

### 2nd Semester

Nurs 110	Nursing Process with Developing Family	9
Chem 100	Intro to Chemistry **	5
Psy 100	General Psychology	
OR		
Soc 110	Intro to Sociology	3
		17

\*\*Chem 100 must be completed prior to or concurrent with Nurs 110.

### Summer Session

Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing	4
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### Sophomore Year

1st Semester		
Nurs 220	Nursing Process with Adults I (WI)	9
Bio 231	Fund of Medical Microbiology ***	5
CORE	[Literature or Fine Art]	3
		17

\*\*\*Bio 231 must be completed prior to or concurrent with Nurs 220.

### 2nd Semester

Nurs 240	Nursing Process with Adults II	9
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 or Hist 110]	3
		18

For additional information contact:

Department of Nursing  
Office: Kuhn Hall 210  
Phone: 625-9322

## Nursing

Kuhn Hall 210, 625-9322

## Bachelor of Science Degree

**Faculty** Box - Head, Ayton, Singleton

The bachelor of science in nursing program (BSN) is designed exclusively for Registered Nurses. The goals of the BSN program are to: graduate professionals who are generalists prepared to function in various health care settings; prepare graduates to deliver nursing care to individuals, families and



# Paramedic/Radiologic Technology

communities; provide a foundation for graduate education; and expand practice in the roles of the professional nurse.

Registered nurses are admitted to the College as transfer students. A maximum of 64 credit hours from junior or community colleges may be transferred. In addition to the College's admission and transfer requirements, applicants to the BSN program must show evidence of: graduation from a state-approved and National League for Nursing (NLN) accredited associate degree or diploma nursing program; cumulative GPA of 2.5 or above on a 4.0 scale; current registered nurse licensure or eligibility in the state of Missouri; junior level standing with 60+ credit hours; three satisfactory professional nurse references; decision score of 100 on the NLN Mobility Profile II, Books 1, 2 and 3; score 75 percent on the Clinical Validation Examination; minimum of one year of Registered Nurse practice in a three year period prior to admission is preferred.

Selection is competitive and based on the selection criteria.

Core Curriculum requirements for the bachelor of science degree may be met prior to beginning the nursing course sequence. Students entering the program must complete the upper level courses within five consecutive years.

Applications, readmission and transfer criteria are available in the nursing department in Kuhn Hall.

## Bachelor of Science Degree in Nursing

	Semester Hours
<b>Core Curriculum Requirements (page 35)</b>	<b>51</b>
<b>Validation Examinations</b>	<b>28</b>
<b>Nursing Major Requirements</b>	<b>42</b>
Nurs 300 Concepts of Professional Nursing (WI)	3
Nurs 315 Gerontic Nursing	3
Nurs 320 Nursing Ethics	3
Nurs 330 Advanced Health Assessment*	6
Nurs 400 Community Health Nursing	6
Nurs 415 Nursing Research (WI)	3
Nurs 430 Nursing Management and Leadership	5
Nurs 498 Nursing Elective	3
Bio 308 Human Pathophysiology	4
Psy 320 Statistics	3
Approved upper level division elective	3

Additional electives to constitute 128 hrs. **128**

\*See course descriptions for prerequisites.

## Suggested Order of Study

### Bachelor of Science Degree

Major Code 3200

#### Nursing Major

Based on completion of Core Curriculum courses

#### Junior Year

Course	Hours
Nurs 300 Concepts of Professional Nursing (WI)	3
Nurs 315 Gerontic Nursing	3
Bio 308 Human Pathophysiology*	4
	<b>10</b>

#### 2nd Semester

Nurs 320 Nursing Ethics	3
Nurs 330 Advanced Health Assessment	6
Comp 105 Intro to Micro Computer Use**	3
	<b>12</b>

#### Senior Year

1st Semester	
Nurs 400 Community Health Nursing	6
Nurs 498 Nursing Elective	3
Psy 320 Statistics*	3
	<b>12</b>

#### 2nd Semester

Nurs 415 Nursing Research	3
Nurs 430 Nursing Management and Leadership	5
Approved Upper Division Elective	3
	<b>11</b>

\*Prerequisite: Math 110 or 130 must be completed prior to Psy 320. Bio 306 must be completed prior to Bio 308.

\*\*Comp 105 or Computer Literacy Validation is required for the BSN.

Completion of a majority of the 51 hours of MSSC Core Curriculum is desirable before admission to the BSN program. Twenty-eight hours of lower division nursing is validated by examination.

For additional information contact:  
Department of Nursing  
Office: Kuhn Hall 210  
Phone: 625-9322

## Preprofessional

Police Academy 101, 625-9519

## Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements

for paramedic programs and desire a college degree may choose this degree program.

## Curriculum Requirements

### Prepharmacy

Major Code 7007

### Core Curriculum Requirements (page 35)\*

Eng 101 and 102 English Comp**	6
Chem 101 and 102 General Chemistry**	10
Math 150 Calculus**	5
Social Sciences/Humanities**	14
Bio 306 Human Physiology and Anatomy	5
Electives	10
	<b>64</b>

\*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

\*\*UMKC School of Pharmacy minimum requirements.

## Paramedic Program

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

## Associate of Arts Requirements

### Core Curriculum Requirements (page 35)

Bio 306 Human Physiology and Anatomy*	5
EMT Course	6
EMT-P Course	12
	<b>65</b>

\*Satisfies Core requirements

## Radiologic Technology

Kuhn Hall 210, 625-9322

Faculty Beals

The associate of science degree in radiologic technology combines Core Curricu-



## Courses/Aviation

lum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject-matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

### Associate of Science in Radiologic Technology

Core Requirements Semester Hours 25

Radiology Requirements			55
Rad 101	Introduction to Radiology*	3	
Rad 111	Medical Terminology	3	
Rad 121	Patient Care and Special Procedures in Radiology	3	
Rad 132	Prin of Radiographic Exposure	3	
Rad 142	Radiographic Positioning I	3	
Rad 160	Film Critique	2	
Rad 170	Radiologic Physics	3	
Rad 180	Practicum in Radiology	4	
Rad 241	Radiographic Positioning II	3	
Rad 252	Radiographic Positioning III	3	
Rad 282	Practicum in Radiology II	2	
Rad 290	Practicum in Radiology III	4	
Rad 299	Advanced Radiology	3	
Bio 306	Human Physiology and Anatomy*	5	
Chem 100	Elementary Chemistry**	5	
OR			
Phys 100	Fundamentals of Physical Science	5	
Psy 221	Psychology of Personal Adjustment	3	
Bio 240	Radiation Biology*	3	

\*See course descriptions for prerequisites.

\*\*Satisfies Core Curriculum Requirement.

### Suggested Order of Study

Associate of Science Degree  
Major Code 5207  
Radiologic Technology Major

#### Freshman Year

Fall Semester		Hours
Bio 306	Human Physiology and Anatomy**	5
Rad 101	Intro to Radiology	3
Rad 170	Radiologic Physics	3
Rad 142	Radiographic Positioning I	3
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 Physical Activity]	1
		16

#### Spring Semester

Math 130	College Algebra	
OR		
Math 30	Intermediate Algebra	3
Psy 100	General Psychology	3
Bio 240	Radiation Biology	3
Rad 132	Prin of Radiographic Exposure	3
Rad 241	Radiographic Positioning II	3
CORE	[HPER 103 Lifetime Wellness]	2
		17

Summer*		
Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	4
		6

#### Sophomore Year

Fall Semester		
Chem 100	Introductory Chemistry	
OR		
Phys 100	Fund of Phys Sci	5
CORE	[Eng 101 Comp I]	3
Psy 221	Psychology of Personal Adjustment	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Positioning III	3
		17

#### Spring Semester

CORE	Hist 110 or PSc 120	3
CORE	[Comm 100 Oral Comm]	3
Rad 121	Patient Care and Special Procedures	3
Rad 282	Practicum in Radiology II	2
CORE	Literature or Fine Arts	3
		14

#### Summer Semester

Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
		7

[Department Recommendation]

\*Summer classes meet a minimum of 12 weeks.

\*\*Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals  
Office: Kuhn Hall 300  
Phone: 625-9323 or 625-9322  
OR  
Mr. James K. Maupin  
Office: Police Academy 113  
Phone: 625-9328

### School of Technology Course Descriptions

#### Aviation (Av)

##### Basic Pilot Training

15.0801-200 5 hrs. cr.  
An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.



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# Courses/Computer Science

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## Computer Science (Comp)

### Introduction to Microcomputer Use (F, S)

11.0201-105 3 hrs. cr.  
Trains persons not necessarily employed as computer professionals who nevertheless have a need to use a microcomputer in their careers. Using a wide variety of packaged software, the student is shown how the microcomputer can be put to best use in a variety of applications with a minimum of programming effort. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed.

### Programming I (Pascal) (F, S)

11.0201-110 3 hrs. cr.  
Introduction to Pascal programming language. Problem analysis and program design will be emphasized. Student learns syntax and language features through arrays and files. Applications will be varied and useful. Three hours lecture per week. Supervised labs by arrangement, open labs as needed. Corequisite: Math 130 or higher.

### Computing I (BASIC) (F, S)

11.0201-115 3 hrs. cr.  
Introduction to BASIC programming language. Provides a service for non-majors and an elective for majors. Problem analysis and program design will be emphasized. Student learns syntax and language features through arrays and files. Applications will be varied and useful. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Corequisite: Math 130 or higher.

### FORTRAN (F)

11.0201-120 3 hrs. cr.  
Introduction to the following areas: (1) mainframe hardware; (2) mainframe operating systems and program development software; (3) structured program design concepts and techniques; (4) program development and testing using a structured language. This class provides an introduction to the FORTRAN language and is designed to include applications from mathematics, statistics and engineering. Three lecture per week. Open labs as required. Prerequisite: Math 130 or higher.

### Advanced Personal Computing w/Graphics (Demand)

11.0201-200 3 hrs. cr.  
Introduction to the following areas: (1) knowledge, skills and programming techniques which are needed in order to develop microcomputer software for business and industry; (2) techniques for designing and producing microcomputer graphics displays. The language of instruction is BASIC. Three hrs. lecture per week. Supervised labs by arrangement, open labs as required. Prerequisite: Comp 115 (or one unit of high school computer programming or equivalent knowledge and three units of high school mathematics).

### Block Structured Programming (F, S)

11.0201-210 3 hrs. cr.  
Introduction to the practice of logical block

structured, hierarchical design of programs with strong data typing. Familiarizes the student with the modern languages which best support these concepts. Though other languages may be discussed, (e.g., Ada, PL/I and Modula-2) emphasis and practice is on the language Pascal. The ability to efficiently design and program significant tasks in Pascal will be the primary goal. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 110 and Math 130 or higher.

### Report Program Generation (F, S)

11.0201-230 3 hrs. cr.  
Introduction to programming language RPG II/III, which is designed for quick and efficient production of business reports. Includes language syntax and practice in preparing, compiling and executing applications of increasing complexity. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 110 or higher.

### Business Data Processing Techniques (F, S)

11.0201-234 3 hrs. cr.  
Methods and techniques of solving business related problems using a business oriented language (COBOL) on a digital computer, including payroll systems, inventory control, billing systems, sorting techniques and file maintenance. Three hrs. lecture per week with open labs as needed. Prerequisite: Comp 110 or higher.

### Statistical Computer Applications (F)

(Writing Intensive)  
11.0201-240 3 hrs. cr.  
A continuation of programming technique/development in a procedural language. Principles presented in previous courses will be employed. Emphasis on non-routine types of applications, including quality control, statistics, curve fitting, forecasting, etc. Three hours lectures per week, open labs as required. Prerequisite: Comp 110 (Pascal).

### Selected Topics in Computer Science (Demand)

07.0305-298 1-8 hrs. cr.  
Special topics in computer science not normally included in another course. Prerequisites specified by the department in a syllabus.

### Principles of Digital Computing (Demand)

11.0401-301 3 hrs. cr.  
Provides the necessary foundation for the continuing study of computing machines. Includes concepts of notation; binary system; systems conversion; Boolean algebra; Karnaugh map simplifications; computer components and architecture; micro, machine and assembler programming; data structures; and simple parsing. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 210.

### Systems Concepts and Data Communications (S)

11.0501-302 3 hrs. cr.  
Introduction to design characteristics of the most common types of on-line business computer

applications. Includes study of components of the computer information system. Data communications comprises a significant portion of the course. Three hrs. lecture per week. Prerequisite: Comp 230 or higher.

## Computer Information Science (CIS)

### Microcomputer Applications (F, S)

11.0601-305 3 hrs. cr.  
A non-discipline specific examination of microcomputer hardware and applications software packages. Emphasis on the most widely used commercial tools, such as word processors, spreadsheets, graphics and database managers. Each application package will be examined in the detail appropriate to a professional's needs. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: One programming course or consent of instructor.

### Operations Modeling (F)

(Writing Intensive)  
11.0401-320 3 hrs. cr.  
Introduction to analytical and simulation techniques used in the modeling of business operations for managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding portfolio analysis, etc. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 210 and Comp 240 and upper division standing or consent of instructor.

### Interactive RPG/400 (S)

11.0305-321 3 hrs. cr.  
Emphasis on on-line or real-time programming of business applications. File creation and maintenance, structured methodologies and advanced features of RPG III/400 and the AS/400 are major topics. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 230 or consent of instructor.

### Assembly Language (S)

11.0201-330 3 hrs. cr.  
Introduction to a computer's low level programming. Topics include an introduction to assembly language format, decimal and integer arithmetic, editing and execution instructions. Also debugging program construction will be applied. Numerous problems will be assigned. Three hrs. lecture per week, open labs as needed. Prerequisite: One 200-level programming class.

### Advanced Structured COBOL (S)

11.0201-334 3 hrs. cr.  
Emphasis on on-line or real-time programming of business applications. File creation and maintenance, structured methodologies and advanced features of COBOL are major topics. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 234.



# Courses/Criminal Justice

## Programming in C (F)

11.0201-335 3 hrs. cr.  
Introduction to the C programming language. Topics include low level architecture, data types and machine independent programming; structured design as applied to large systems of programs; and syntax and semantics of an ANSI standard C implementation. Linking C both to assembly language and high-level languages will be considered. Numerous problems will be assigned. Three hrs. lecture per week, open labs as needed. Prerequisite: One 200-level programming class.

## Computer Simulation (F, Even)

11.9999-340 3 hrs. cr.  
Methods and techniques of solving systems of simultaneous differential equations on digital computers will be developed. Appropriate for mathematics, physics and engineering transfer students. Includes data flow modeling techniques, the simulation of non-linear functions, block diagramming of systems, familiarization with La Place methods. Various design problems of engineering, mathematics and physics applications and models of biological and social systems will be treated. Three hrs. lecture per week, open labs as needed. Prerequisite: Math 250.

## Teaching Computer Science in Secondary School (Demand)

13.1399-346 2 hrs. cr.  
Introduction to instructional planning, materials selection and methods of teaching computer science/data processing subjects in secondary school. Part of the Professional Semester.

## Data Structures and Techniques (S)

11.0401-350 3 hrs. cr.  
Introduces basic concepts of information and techniques for operating on data/program structures. Develops concepts and use of program control constructs, information structures, files, searching, sorting, updating, linking and attendant program documentation, debugging and testing. Three hrs. lecture per week. Prerequisite: Comp 210 or consent of instructor.

## Interactive Computer Graphics (S, Odd)

11.0401-360 3 hrs. cr.  
Introduction to interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light and color. The functional capabilities of computer graphics systems and their applications will be covered. Three hrs. lecture per week, open labs as needed. Prerequisite: Math 150 and Comp 210.

## Computer Colloquium (S)

11.0401-400 1 hr. cr.  
Students have opportunity to make and attend individual presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best avail-

able software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hrs. per week for 1 hr. credit. Prerequisite: Upper division standing.

## Internship in Computer Information Science (S)

11.0401-401 3-8 hrs. cr.  
A limited number of computer information science students may serve an internship of 20 hours per week for up to 16 weeks. Credit hours to be arranged through the coordinator of the internship program. Intern works for a local, cooperating firm in a production data processing environment, gaining valuable experience in programming and/or systems analysis and design to supplement course work. On-site work supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Junior or senior standing, department approval and an overall GPA of 3.0.

## Information System Analysis (F)

11.0501-410 3 hrs. cr.  
Supervised and practical experience in the analysis and design of computer based information systems with emphasis in the areas of basic design tools and objectives, documentation, hardware/software selection, system concepts, software design and engineering with computer assisted software engineering tools, evaluation and project management. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 302.

## Database Design and Implementation (S)

11.0502-425 3 hrs. cr.  
In-depth look at the major database architectures applied in many of the commercial DBMS packages. Major components of a DBMS such as query languages, data dictionaries, security systems, utilities, data definition languages (DDL) and data manipulation languages (DML) are also covered. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 234 and CIS 410.

## Introduction to Artificial Intelligence (F, Odd)

11.0401-430 3 hrs. cr.  
Introduces process of developing intelligent computer software through the use of a special object oriented programming language such as Prolog. Topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning and meta-programming. Three hrs. lecture per week, open labs as needed. Prerequisite: CIS 350.

## Operating System Software (F)

(Writing Intensive)  
11.0401-450 3 hrs. cr.  
Provides a working view of hardware, operating software and firmware; examines the role of JCL in a data processing environment. Systems for filing, managing data and communicating are studied. Several common operating systems are studied with one used as a model so students gain insight into the function of operating sys-

tems. Three hrs. lecture per week. Prerequisites: CIS 350 or permission of department head.

## Programming Languages (S, Even)

11.0401-460 3 hrs. cr.  
Introduction to the mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages (e.g. LISP SNOBOL, Prolog, C, FORTH, PL/I) will be examined with example programs to be written in each. Three hrs. lecture per week. Prerequisite: Two programming language courses.

## Seminar in Computer Science (Demand)

11.0305-498 1-3 hrs. cr.  
Addresses emerging topics in computing. Course content will depend on the needs of the attendees. Prerequisites: 60 hrs. credit with a GPA of 3.0 or permission of department head.

## Independent Study (Demand)

11.0305-499 1-3 hrs. cr.  
Structured by the adviser with approval of the department head. Prerequisite: 60 hrs. credit with a GPA of 3.0. Enrollment must be approved by adviser, department head and dean of the school.

## Criminal Justice Administration (CJAd)

### Introduction to Security (S)

43.0103-230 3 hrs. cr.  
Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

### Basic Photography (F, S)

43.0605-210 3 hrs. cr.  
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging.

### Physical Security (S)

43.0103-325 3 hrs. cr.  
Physical aspects of the security industry and its role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques. Prerequisite CJAd 230 Introduction to Security or instructor's permission.

### Legal and Technical Aspects of Firearms (F, S)

43.0103-260 3 hrs. cr.  
History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms ac-



# Courses/Dental Hygiene

quisitions, ownership and use. Three hrs. lecture per week. Additional lab time arranged.

## Special Topics in Criminal Justice Administration (Demand)

43.0103-298 1-8 hrs. cr.  
Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.

## Criminal Investigation II (S)

43.0103-300 3 hrs. cr.  
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.

## Traffic Accident Investigation and Control (F)

43.0103-310 3 hrs. cr.  
Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting.

## Probation and Parole (S)

43.0103-320 3 hrs. cr.  
Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.

## Loss Prevention Techniques (F)

43.0103-330 3 hrs. cr.  
Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities. Prerequisites: CJAd 230.

## Administration of Security Systems (Demand)

43.0103-331 3 hrs. cr.  
The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.

## Basic Color Photography (S)

43.0605-340 3 hrs. cr.  
Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

## Fish and Game Enforcement (S)

43.0103-350 3 hrs. cr.  
Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

## Homicide Investigation (Demand)

43.0103-400 3 hrs. cr.  
Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.

## Juvenile Procedures (F)

43.0103-410 3 hrs. cr.  
Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.

## Juvenile Corrections (S)

43.0103-411 3 hrs. cr.  
Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110.

## Correctional Practices (F)

43.0103-412 3 hrs. cr.  
History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

## Criminal Evidence (S)

43.0103-450 3 hrs. cr.  
Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

## Internship in Criminal Justice (Arr)

43.0103-490 1-8 hrs. cr.  
Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 3.0 and a CJAd GPA 3.5.

## Seminar in Criminal Justice (Demand)

43.0103-498 1-3 hrs. cr.  
A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.

## Independent Study in Criminal Justice (Arr)

43.0199-499 1-3 hrs. cr.  
Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.

## Dental Hygiene (DH)

### Fundamentals of Dental Hygiene I (F)

17.0102-101 4 hrs. cr.  
Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

### Fundamentals of Dental Hygiene II (S)

17.0102-102 4 hrs. cr.  
Continuation of DH 101 with further enrichment

of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

## Dental Morphology (F)

17.0102-140 1 hr. cr.  
Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

## Oral Histology and Embryology (F)

17.0102-150 3 hrs. cr.  
Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

## Dental Radiology (S)

17.0102-160 2 hrs. cr.  
Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

## Clinical Dental Hygiene I (Summer)

17.0102-190 3 hrs. cr.  
Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, 1 seminar and 16 hrs. lab per week. Prerequisite: DH 102 with minimum grade of "C" or instructor's permission.

## Dental Health Education (F)

17.0102-200 3 hrs. cr.  
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

## Perio-Pathology (Summer)

17.0102-210 3 hrs. cr.  
Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, classification, treatment and prevention of periodontal disease is stressed. Six hrs. lecture per week.

## Dental Materials (S)

17.0102-220 3 hrs. cr.  
Information about various dental materials. Stu-



# Courses/Drafting and Design

dents learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene "I" with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

## Clinical Dental Hygiene II (F)

17.0102-290 5 hrs. cr.  
Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

## Nutrition (S)

17.0102-310 2 hrs. cr.  
Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

## Pharmacology (F)

17.0102-320 2 hrs. cr.  
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

## Ethics and Community Dentistry (S)

17.0102-330 3 hrs. cr.  
Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federal, state and local health programs; needs and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

## Clinical Dental Hygiene III (S)

17.0102-390 5 hrs. cr.  
Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

## Computer Aided Drafting and Design (CADD)

### Introductory Drafting (F, S)

48.0105-110 3 hrs. cr.  
Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

### Intro to Computer Aided Drafting (F, S)

48.0105-115 2 hrs. cr.  
Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with consent of instructor. One hr. lecture, 2 hrs. lab per week.

### Descriptive Geometry (S)

48.0105-120 3 hrs. cr.  
Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

### Machine Drafting (S)

48.0105-130 3 hrs. cr.  
Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

### Tool Design (Demand)

48.0105-202 3 hrs. cr.  
Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 130.

### Mechanical Design (F)

48.0105-204 3 hrs. cr.  
Principles of mechanical design with emphasis on proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

### Technical Illustration (S)

48.0105-210 3 hrs. cr.  
Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems and air brushes will be intro-

duced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

### Architectural Drafting (S)

48.0105-220 3 hrs. cr.  
Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

### Survey & Mapping (F)

15.0203-230 3 hrs. cr.  
Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

### Computer Aided Drafting (F, S)

48.0105-260 3 hrs. cr.  
Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD system to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115 and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220 or CADD 230. A student having industrial drafting experience may be admitted with consent of instructor if CADD 115 or equivalent industrial training course has been completed.

### Computerized Production Planning and Control Systems (F)

48.0105-310 3 hrs. cr.  
Theory and application of computer-automated process planning (CAPP) systems as they relate to the study of computer-integrated manufacturing (CIM). Three hrs. lecture, labs are arranged. Prerequisite: CAMT 160.

### Computer Machine Design (S)

48.0105-330 3 hrs. cr.  
Instruction in the principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling and design analysis. Three hrs. lecture labs are arranged. Prerequisite: CADD 130.

### Internship in Drafting & Design (Demand)

48.0105-490 1-8 hrs. cr.  
A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not



# Courses/Environmental, Law Enforcement

a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of drafting & committee approval.

## Special Topics Draft/Design (Demand)

48.0105-298 1-8 hrs. cr.  
A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

## Seminar in Drafting & Design (Demand)

48.0105-498 1-3 hrs. cr.  
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

## Independent Study in Drafting & Design (Demand)

48.0105-499 1-3 hrs. cr.  
Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head and school dean.

## Environmental Health Technology (EHT)

### Selected Topics in Environmental Health

18.0799-298 1-8 hrs. cr.  
Special topics in environmental health not normally included in another course. Prerequisite: Bio 101, 112 and 122.

### Environmental Geology (Demand)

40.0601-300 4 hrs. cr.  
Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100. (Double listed in geology.)

### Environmental Biology (F)

26.0603-312 4 hrs. cr.  
Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110 or permission of instructor. (Double listed in biology.)

### Environmental Health (Demand)

26.0704-370 4 hrs. cr.  
Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 211 or 231, junior standing in science or permission of instructor. (Double listed in biology.)

### Environmental Regulations and Program Administrations (F, Odd)

18.0799-372 4 hrs. cr.  
Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

### Solid Waste Management (S, Even)

18.1107-373 2 hrs. cr.  
Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

### Vector Control (S, Even)

18.1107-375 2 hrs. cr.  
Identification and control of organisms which serve as reservoirs and vectors of diseases. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

### Community Sanitation (S, Odd)

18.1107-377 4 hrs. cr.  
Introduction to concepts, principles and methods generally useful in performance of duties of city and county health department personnel. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

### Food, Milk and Consumer Protection (F, Even)

18.1107-385 4 hrs. cr.  
Introduction to production, processing, transporting and retailing of food, milk, shellfish and other foods. Prerequisite: Bio 231, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor.

### Environmental Assessment (S, Odd)

26.0603-483 2 hrs. cr.  
The essential elements necessary for development of an environmental assessment document as specified by the National Environmental Protection Act. Prerequisite: Bio 290 and EHT 370 (Bio 370) or permission of instructor.

### Epidemiology (S, Odd)

18.1107-380 2 hrs. cr.  
Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor. (Double listed in biology.)

### Internship in Environmental Health (F, S)

18.0799-450 1-8 hrs. cr.  
Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.

### Seminar in Environmental Health

18.0799-498 1-3 hrs. cr.  
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisite: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission of instructor.

### Problems in Environmental Health

18.0799-499 1-3 hrs. cr.  
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

## Law Enforcement (LE)

### Introduction to Law Enforcement (F, S)

43.0107-100 3 hrs. cr.  
Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

### Police Organization and Administration (F)

43.0107-110 2 hrs. cr.  
Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

### Interview and Report Writing (S)

43.0107-150 2 hrs. cr.  
The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

### Basic Police Academy (F, S, Summer)

43.0107-180 6 hrs. cr.  
The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports,



# Courses/Manufacturing, Medical Tech

defensive tactics, investigation and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110 and LE 150 or permission. (Additional lab fee for course.)

## **Criminal Investigation I (F)**

43.0107-200 3 hrs. cr.  
Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

## **Criminal Procedures (F)**

43.0107-210 3 hrs. cr.  
Criminal law procedures from arrest through trial, search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

## **Criminal Law (S)**

43.0107-250 3 hrs. cr.  
Criminal law purposes and functions, laws concerning arrest, search and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

## **Police Supervision and Management**

43.0107-290 3 hrs. cr.  
Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

## **Special Topics in Law Enforcement (Demand)**

43.0107-298 1-8 hrs. cr.  
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

## **Computer Assisted Manufacturing Technology (CAMT)**

### **Intro to Machine Tool Processes (F, S)**

48.0503-100 4 hrs. cr.  
The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blueprint reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. Two hrs. lecture, 6 hrs. lab per week.

### **Intermediate Machine Tool Processes (F, S)**

48.0503-105 4 hrs. cr.  
An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

### **Inspection and Gaging (S)**

48.0503-160 2 hrs. cr.  
Inspection, gaging and precision measurement

procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture, one 2-hour lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 and Math 112 or consent of instructor.

### **Advanced Machine Tool Processes (F, S)**

48.0503-200 4 hrs. cr.  
Basic numerical control concepts and its applications, the operation of numerical control system, numerical control programming as applied to machining applications using MDI. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 130, Math 130 or 112 or consent of instructor.

### **Computer Assisted Manufacturing (S)**

48.0503-250 4 hrs. cr.  
Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100, CAMT 200, CADD 130, Math 130 or 112 or consent of instructor.

### **Fundamentals of Metallurgy (F)**

48.0503-260 3 hrs. cr.  
Introduction to physical metallurgy. Theory and application of principles for identifying, producing, conditioning and testing of ferrous and non-ferrous metals. Topics include heat treating, machining, welding, casting and forming of metals. Laboratory activities involve manual and computer assisted testing and metallographic examination. One 1-hr. lecture, two 2-hr. labs per week.

### **Production Planning and Control (S)**

48.0503-290 3 hrs. cr.  
A survey of the essential steps for effective planning and control of manufacturing production. Emphasis on process identification, process sheets and scheduling with related costs. Activities that influence the production planning and control function will be surveyed including quality control, safety, plant layout, inventory control, material handling and justification of robots and automated equipment. Commercial computer software will be used throughout the course to strengthen and expand the principles taught. Three hrs. lecture per week. Prerequisite: CAMT 200, Comp 115 or consent of instructor.

### **Selected Topics in Manufacturing Technology (Demand)**

48.0503-298 1-8 hrs. cr.  
Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

### **Manufacturing Data Processing (F)**

48.0503-310 4 hrs. cr.  
Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to a knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

### **Quality Control and Reliability (F)**

48.0503-330 3 hrs. cr.  
The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC which would cover control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

### **Internship in Manufacturing Technology (Demand)**

48.0503-490 1-8 hrs. cr.  
A structured work experience in manufacturing technology at an institution, facility or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

### **Seminar in Manufacturing Technology (Demand)**

48.0503-498 1-3 hrs. cr.  
Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

### **Independent Study in Manufacturing Technology (Demand)**

48.0503-499 1-3 hrs. cr.  
Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

## **Medical Technology (MT)**

### **Introduction to Medical Technology (F, S)**

18.0901-200 1 hr. cr.  
A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, mi-



# Courses/Military, Nursing

crobiology, serology, radioimmunoassay and chemistry.

## Clinical Chemistry (F)

18.0901-401 10 hrs. cr.  
Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

## Clinical Microscopy (S)

18.0901-402 1 hr. cr.  
Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

## Hematology (F)

18.0901-403 6 hrs. cr.  
The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

## Serology-Immunology (S)

18.0901-404 3 hrs. cr.  
The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

## Clinical Microbiology (S)

18.0901-405 7 hrs. cr.  
Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

## Blood Bank-Immunohematology (S)

18.0901-406 3 hrs. cr.  
A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

## Special Topics in Medical Technology (S)

18.0901-407 2 hrs. cr.  
Lecture and/or clinical practice in the areas of in-service education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

## Military Science (MS)

### Adventure Training (F)

28.0301-111 2 hrs. cr.  
Basic rifle marksmanship, camping, mountain-

eering, rappelling, map reading and survival. An overview of Army ROTC and job opportunities throughout the Army. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

### Survival Skills (S)

28.0301-112 2 hrs. cr.  
Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

### Contemporary Military Subjects (F)

28.0301-121 2 hrs. cr.  
An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, one hr. lab per week. Participants incur no military obligation by taking this course.

### Individual Military Skills (S)

28.0301-122 2 hrs. cr.  
Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs and additional leadership experiences. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

### Seminar in Military Science (ROTC Basic Camp) (Summer)

28.0301-298 2-8 hrs. cr.  
An in-depth study of the military science courses normally taught on the college campus during the freshman and sophomore years, including tactics, marksmanship, communication, physical conditioning and practical leadership experience. The six-week course is taught at Fort Knox, Ky. with transportation and room and board plus a salary provided by the Army.

### Fundamentals and Dynamics of Military Team I (F)

28.0301-301 3 hrs. cr.  
Leadership, its principles, responsibilities and techniques. Functions of the leader, leadership (including management of military assets), introduction to leadership theory and practice and military laws. Included is a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

### Fundamentals and Dynamics of Military Team II (S)

28.0301-302 3 hrs. cr.  
Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two

weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

### United States Military Experience 1775 to Present (S)

(See Hist 400)  
28.0301-400 3 hrs. cr.  
A broad view of military history as concerned with the role of force on land, sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization and technology, relating them to political, social and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

### Leadership and Management I (F)

28.0301-411 3 hrs. cr.  
Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics, leadership theory and practice. Also included is a program of directed readings in military history, a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

### Leadership and Management II (S)

28.0301-412 3 hrs. cr.  
Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

## Nursing - Associate Degree (NURS)

### Introduction to Nursing Process (F)

18.1101-100 6 hrs. cr.  
An introduction to nursing, roles of the associate degree nurse and application of the nursing process with emphasis on health. Emphasis on the uniqueness of individuals through the study of development of the individual and family, cultural diversity and the communication process. Nursing history, ethical and legal aspects, pharmacology, nutrition and rehabilitation are introduced. Students are assigned to local clinical agencies for supervised experience in application of the nursing process. Students are expected to demonstrate proficiency in the basic nursing skills. Computer assisted instruction is utilized. Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPN's will be exempt from part of the clinical lab experience. Clinical experience sufficient to develop skill in the use of the nursing process will be assigned. Four hrs. of lecture, 8 hrs. of classroom and clinical lab including pre- and post-conferences.



# Courses/Nursing, Paramedic

## **Nursing Process with the Developing Family (S)** 18.1101-110 9 hrs. cr.

Family development and individual development from conception through adolescence. Following the initial emphasis on health, the nursing process is applied to complications of childbearing and common illnesses of childhood. The student is expected to organize care of selected patients. Communication skills are applied in caring for and teaching the family. Related drug, nutrition and rehabilitation interventions are included. Historical highlights, trends, legislation and international cultural implications are presented. Computer assisted instruction and computer adapted testing are included. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 100 and Bio 306 with minimum grade of "C."

## **Nursing Process in Psychiatric-Mental Health Nursing (Summer)** 18.1101-130 4 hrs. cr.

The promotion of mental health as well as application of the nursing process in the care of the client who demonstrates alterations in mental health in psychiatric mental health settings. Use of therapeutic communication and the nurse-patient relationship are emphasized. Related pharmacology, legal and ethical issues, nutrition are integrated. Computer assisted instruction is utilized. Four hrs. lecture, 12 hrs. clinical lab including pre- and post-conference. Prerequisites: Nurs 110 and Chem 100 with minimum grade of "C."

## **Nursing Process with Adults I (F)** 18.1101-220 9 hrs. cr.

Applies the nursing process to the adult client and family in achieving wellness. Development aspects of the middle years are emphasized. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the associate degree nurse. Communication including writing skills and health teaching are emphasized. Legal, rehabilitational aspects are integrated. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisite: Nurs 130 with minimum grade of "C."

## **Nursing Process with Adults II (S)** 18.1101-240 9 hrs. cr.

A continuation of Nursing 220 with application of the nursing process to include critical care areas. The student assumes a greater role as a member of the health team by increased utilization of organizational and managerial skills. Developmental aspects of aging are emphasized. Professional issues, international trends as they influence health care are included. Four hrs. lecture, 15 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 220 and Bio 231 with minimum grade of "C."

## **Selected Topics in Nursing (Demand)** 18.1101-298 1-3 hrs. cr.

Special topic or topics not normally included in

another course. Prerequisites to be determined by the department of nursing and stipulated in a syllabus of the course.

## **Nursing - Baccalaureate Degree (NURS)**

### **Concepts of Professional Nursing (F)**

(Writing Intensive)

18.1120-300

3 hrs. cr.

Provides opportunities for socialization of the learner in transition from a technical level to the professional level of nursing practice. Core content includes theories of nursing, the nursing process, change theory, communications, teaching/learning process and professional accountability. Professional roles of the nurse presented are teacher, planner of care, communicator and contributor to the discipline of nursing. Three hrs. lecture. Prerequisite: Admission to BSN program.

### **Gerontic Nursing (F)**

18.1120-315

3 hrs. cr.

Provides comprehensive knowledge of the processes and problems of aging. Needs and functional capacities of the aged are addressed. Emphasis is placed on the formulation of interventions appropriate to the individual needs of the aged client and family. Issues relevant to the field of gerontic nursing are presented. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

### **Nursing Ethics (S)**

18.1120-320

3 hrs. cr.

Investigates ethical issues which confront the professional throughout the client's life span. Ethics as a concept, traditional ethical approaches, constraints in nursing practice and selected ethical issues are presented. The role of the nurse will be emphasized using the case study approach. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

### **Advanced Health Assessment (S)**

18.1120-330

6 hrs. cr.

Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to refine the assessment skills with the assistance of an instructor. Nursing process is applied to the care of patients with a complexity of health problems in a variety of settings. Three hrs. lecture, 3 hrs. campus lab and 6 hrs. clinical lab. Prerequisites: Nursing 300, Bio 308.

### **Community Health Nursing (F)**

18.1120-400

6 hrs. cr.

Concepts and methods for assessment of community strengths and health needs will be analyzed. Recommendation for the prevention, promotion and restoration of the health of individuals within the community, state and nation are presented. Interactive process is accentuated between health care providers and com-

munity residents to improve the overall health status of the person and aggregates. Three hrs. lecture, 9 hrs. clinical lab including conferences. Prerequisites: Nurs 300, Nurs 330.

### **Nursing Research (S)**

(Writing Intensive)

18.1120-415

3 hrs. cr.

Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing research builds upon knowledge and skills acquired in the statistics course. Three hrs. lecture. Prerequisites: Psy 320, Nurs 300, Nurs 330, Nurs 400.

### **Nursing Management and Leadership (S)**

18.1120-430

5 hrs. cr.

Investigates the role of the nurse manager responsible for clinical practitioners of a bureaucratic environment. Concepts of competitive health care environment, value of services, access to care, quality and costs of services and professional level of nursing practice are incorporated. Application of concepts through clinical lab experiences promotes the knowledge and skills in understanding and manipulating the environments in which nurses practice. Three hrs. lecture, 6 hrs. clinical lab. Prerequisites: Nurs 300, Nurs 330, Nurs 400.

### **Seminar in Nursing (Demand)**

18.1120-498

1-3 hrs. cr.

Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

### **Independent Study (Demand)**

18.1120-499

1-3 hrs. cr.

Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

## **Paramedic Program (EMT-P)**

### **EMT-P (Paramedic) (Demand)**

17.9999-295

12 hrs. cr.

Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this



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## Courses/Radiologic Tech

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course. (For additional information, contact the Continuing Education Office or School of Technology.)

### Radiologic Technology (Rad)

#### Introduction to Radiology

17.0209-101 3 hrs. cr.  
An introduction to the radiology department, including basic procedures and equipment. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or co-requisite Bio 306.

#### Medical Terminology

17.0209-111 3 hrs. cr.  
Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

#### Patient Care and Special Procedures in Radiology

17.0209-121 3 hrs. cr.  
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media, special attention is given to the visualization of the digestive, urinary and reproductive organs. Three hrs. lecture per week.

#### Principles of Radiographic Exposure

17.0209-132 3 hrs. cr.  
The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.

#### Radiographic Positioning I

17.0209-142 3 hrs. cr.  
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

#### Film Critique

17.0209-160 2 hrs. cr.  
Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

#### Radiologic Physics

17.0209-170 3 hrs. cr.  
The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.

#### Practicum in Radiology I

17.0209-180 4 hrs. cr.  
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

#### Radiographic Positioning II

17.0209-241 3 hrs. cr.  
In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.

#### Radiographic Positioning III

17.0209-252 3 hrs. cr.  
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

#### Practicum in Radiology II

17.0209-282 2 hrs. cr.  
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

#### Practicum in Radiology III

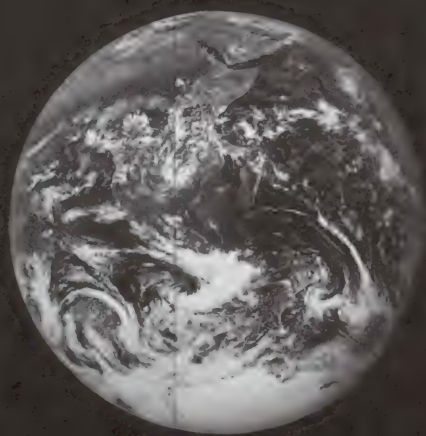
17.0209-290 4 hrs. cr.  
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

#### Advanced Radiology

17.0209-299 3 hrs. cr.  
Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per week.



# FACULTY & ADMINISTRATION





# College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five to one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission

Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

## Board of Regents

John O. Phelps 1991  
Gilbert Roper 1992  
Frank S. Dunaway 1993  
Douglas K. Crandall 1994  
Cynthia Schwab 1995  
Keith Adams 1996

## Board of Trustees

Fred G. Hughes  
Carolyn D. McKee  
Donald R. Patterson  
Elvin Ummel  
Jerry E. Wells

## Memberships

American Association of State Colleges and Universities  
American Association of Colleges for Teacher Education  
North Central Association  
Sub-Committee on Institutions for Teacher Education  
Council for the Advancement and Support of Education  
American Assembly of Collegiate Schools of Business

## Accreditation

North Central Association of Colleges and  
Secondary Schools  
National Council for the Accreditation of Teacher  
Education  
Missouri State Board of Nursing  
Missouri State Department of Education  
American Dental Association  
American Medical Association  
National League for Nursing  
National Association for Accreditation of Clinical  
Laboratory Sciences  
Committee on Allied Health Education and  
Accreditation

*Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs.*





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# Administration & Faculty

## Administrative Staff

President .....	Julio S. Leon
Senior Vice President .....	John W. Tiede
Vice President for Academic Affairs .....	Robert C. Brown
Vice President for Student Services .....	Glenn D. Dolence
Controller & Assistant Vice President for Business Affairs .....	Sidney Shouse
Assistant to the Vice President for Academic Affairs .....	Delores Honey
Dean, School of Arts and Sciences .....	Ray A. Malzahn
Dean, School of Business Administration .....	James Gray
Dean, School of Education and Psychology .....	Edward P. Merryman
Dean, School of Technology .....	James K. Maupin
Assistant Dean, School of Technology .....	Donald R. Senecker
Head, Department of Biology .....	John Messick
Head, Department of Communications .....	Richard W. Massa
Head, Department of Education .....	James V. Sandrin
Head, Department of English .....	Joseph Lambert
Head, Department of Fine Arts .....	Pete Havely
Head, Department of Mathematics .....	J. Larry Martin
Head, Department of Physical Sciences .....	Vernon D. Baiamonte
Head, Department of Social Sciences .....	David D. Tate
Head, Department of Physical Education .....	Max D. Oldham
Head, Department of Psychology .....	Betsy Q. Griffin
Director of Criminal Justice .....	Jack Spurlin
Director of Dental Science .....	Sandra Scorse
Director of Military Science .....	Major James Dunn, Jr.
Director of Nursing .....	Barbara Box
Head Librarian .....	Charles H. Kemp
Director of Alumni Affairs .....	Kreta C. Gladden
Director of Continuing Education, Conferences and Workshops .....	R. Jerry Williams
Director of Public Information .....	Gwen E. Hunt
Registrar .....	Eugene C. Mouser
Director of Missouri Southern Foundation .....	W. Sue Billingsly
Director of Computer Center .....	J. Steve Earney
Director of Student Life .....	Douglas M. Carnahan
College Nurse .....	Irma J. Hartley
Director of Men's Athletics .....	James L. Frazier
Director of Placement .....	Nancy Disharoon
Director of Women's Athletics .....	Sallie L. Beard
Director of Admissions .....	Richard D. Humphrey
Learning Center Coordinator .....	Myrna L. Dolence
Director of Student Financial Aid .....	James E. Gilbert
Bookstore Manager .....	Charles D. Moss
Director of Office Services .....	Ron Foster
Director of Safety & Security .....	Bill Boyer
Director of Personnel .....	Douglas Coen
Director of Purchasing .....	David Throop
Director of Physical Plant .....	Bob Beeler

(Effective Spring 1991)



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## Faculty

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### Faculty

(Date indicates first year of MSSC service)

#### David L. Ackiss

Associate Professor, English 1981  
Bachelor's (A.B.), Davidson College  
Master's (M.A.), College of William and Mary  
Doctorate (Ph.D.), Duke University  
Post Doctoral Studies, Oxford University, England

#### Christine B. Ackiss

Assistant Professor, Nursing 1981  
Bachelor's (B.S.N.), University of Connecticut  
Master's (M.S.N.), University of North Carolina

#### Franklyn W. Adams

Associate Professor, Biology 1988  
Bachelor's (B.S.), University of Southern Mississippi  
Master's (M.A.), Montevallo University  
Doctorate (Ph.D.), University of Southern Mississippi

#### Larry R. Albright, II

Professor, Chemistry 1969  
Bachelor's (B.S.), Northwest Missouri State University  
Master's (M.S.), University of Nebraska  
Doctorate (Ph.D.), University of Nebraska

#### Ann Allman

Instructor, Counselor 1988  
Bachelor's (B.A.), University of Missouri  
Master's (M.Ed.), University of Missouri  
Doctoral Studies, University of Missouri

#### Grace Ayton

Assistant Professor, Nursing 1986  
Bachelor's (B.S.N.), Columbia Union College  
Master's (M.N.), Wichita State University

#### Brian C. Babbitt

Professor, Psychology 1977  
Bachelor's (B.A.), Western Washington State College  
Master's (M.A.), University of New Mexico  
Doctorate (Ph.D.), University of New Mexico

#### Vernon D. Baiamonte

Professor, Chemistry 1967  
Physical Science Department Head  
Bachelor's (A.B.), Colorado State College  
Master's (M.A.), Colorado State College  
Doctorate (Ph.D.), Indiana University

#### Scott L. Ballard

Instructor, Physical Education 1990  
Women's Basketball Coach  
Bachelor's (B.S.), Southwest Missouri State University  
Master's (M.S.), Drury College

#### Michael E. Banks

Associate Professor, Education 1975  
Bachelor's (B.S.), Oklahoma State University  
Master's (M.S.), New Mexico Highlands University  
Doctorate (Ph.D.), University of Kansas

#### Francis L. Bartholet Jr.

Instructor, Drafting 1987  
Bachelor's (B.S.), St. Cloud State University  
Master's (M.Ed.), University of Minnesota  
Doctoral Studies, University of Iowa

#### Wiley A. Beals

Instructor, Radiologic Technology 1982  
Associate's (A.S.), Missouri Southern State College  
Graduate, Burge School of Radiologic Technology  
Registered Radiologic Technologist  
American Registry of Radiologic Technologists

#### Sallie L. Beard

Assistant Professor, Physical Education 1972  
Director of Women's Athletics  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.S.), Pittsburg State University

#### Eugene C. Bell

Professor, Business 1989  
Bachelor's (B.A.), University of Texas  
Master's (M.B.A.), Harvard University  
Doctorate (Ph.D.), University of Houston

#### David C. Bingham

Associate Professor, Biology 1963  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ed.D.), University of Arkansas

#### Robert Black

Instructor, Library 1988  
Bachelor's (B.A.), Millikin University  
Master's (M.B.A.), University of Indiana  
Master's (M.L.S.), Illinois State University

#### Holland C. Blades Jr.

Professor, Business 1987  
Bachelor's (B.A.), Millsaps College  
Master's (M.B.A.), University of Southern Mississippi  
Doctorate (Ph.D.), University of Arkansas

#### Harold W. Bodon

Professor, Communications 1971  
Bachelor's (B.A.), University of Utah  
Master's (M.S.), California State University-Hayward  
Doctorate (Ph.D.), Brigham Young University

#### Barbara Box

Associate Professor, Nursing 1986  
Director  
Bachelor's (B.S.N.), Carlow College  
Master's (M.S.), University of Oklahoma  
Doctorate (Ed.D.), Oklahoma State University

#### Karen Bradshaw

Instructor, Business 1986  
Bachelor's (B.S.B.A.), Pittsburg State University  
Master's (M.B.A.), Pittsburg State University

#### Barry Brown

Assistant Professor, Philosophy 1987  
Bachelor's (B.A.), Kalamazoo College  
Master's (M.A.), Columbia University  
Master's (M.A.), University of Rochester  
Doctorate (Ph.D.), University of Rochester

(Revised 4/30/91)



# Faculty

## James F. Brown

Assistant Professor, English 1984  
Bachelor's (B.S.), University of Iowa  
Master's (M.A.), University of Iowa  
(English)  
Master's (M.A.), University of Iowa  
(Education)  
Doctoral Studies, University of Iowa

## Robert Charles Brown

Professor, Vice President for Academic  
Affairs 1987  
Bachelor's (B.A.), Northwestern State  
University of Louisiana  
Master's (M.A.), Louisiana State  
University  
Doctorate (Ph.D.), Louisiana State  
University

## Alfred Cade, Jr.

Instructor, Physical Education 1984  
Assistant Football Coach  
Bachelor's (B.S.), Northwest Missouri  
State University  
Master's (M.S.), Northwest Missouri  
State University

## Dominic Caristi

Assistant Professor, Communications  
1988  
Bachelor's (B.A.), University of Miami  
Master's (M.A.), Central Missouri State  
University  
Doctorate (Ph.D.), University of Iowa

## Valerie Carlisle

Assistant Professor, Student Services 1985  
Bachelor's (B.A.), West Virginia  
University  
Master's (M.Ed.), University of South  
Carolina

## Douglas M. Carnahan

Associate Professor  
Assistant to the Vice President for  
Student Services 1978  
Director of Student Life  
Bachelor's (A.B.), Bowling Green State  
University  
Master's (M.Ed.), University of Georgia  
Specialist (Ed.S.), Pittsburg State  
University  
Doctoral Studies, Oklahoma State  
University

## Carmen M. Carney

Professor, Communications 1974  
Bachelor's (B.S.), Catholic University of  
Puerto Rico  
Master's (M.A.), University of Iowa  
Doctorate (Ph.D.), University of Iowa  
Post Doctoral Studies, Harvard  
University, Yale University

## Albert J. Carnine

Assistant Professor, Music 1977  
Bachelor's (B.M.E.), Illinois Wesleyan  
University  
Master's (M.M.), Southern Methodist  
University  
Master's (M.M.E.), Southern Methodist  
University  
Doctorate (D.M.A.), University of Texas

## Patrick Cassens

Professor, Mathematics 1988  
Bachelor's (B.S.), St. Louis University  
Master's (M.S.), St. Louis University  
Doctorate (Ph.D.), St. Louis University

## Val Alan Christensen

Assistant Professor, Art 1979  
Director of Spiva Art Center  
Bachelor's (B.F.A.), University of  
Nebraska, Lincoln  
Master's (M.F.A.), Wichita State  
University

## Myung-Hee Chung

Assistant Professor, Music 1989  
Bachelor's (B.M.), Juilliard School of  
Music  
Master's (M.M.), Juilliard School of  
Music  
Doctorate (D.M.A.), Manhattan School  
of Music

## Charles Clark

Instructor, Music 1989  
Bachelor's (B.M.E.), Central Missouri  
State University  
Master's (M.A.), Central Missouri  
State University

## Robert L. Clark

Associate Professor, Communications  
1984  
Bachelor's (B.A.), Brigham Young  
University  
Master's (M.A.), Brigham Young  
University  
Doctorate (Ph.D.), University of  
Oregon

## Sam L. Claussen

Associate Professor, Theatre 1977  
Bachelor's (A.B.), Missouri Southern  
State College  
Bachelor's (B.A.), Missouri Southern  
State College  
Master's (M.F.A.), University of Virginia

## Edith M. Compton

Associate Professor, Business 1967  
Bachelor's (B.S.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University  
Specialist (Ed.S.), Pittsburg State  
University

## Judith L. Conboy

Professor, Sociology 1969  
Bachelor's (B.A.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University  
Specialist (Ed.S.), Pittsburg State  
University  
Doctorate (Ph.D.), Kansas State  
University

## C. Martin Conklin

Instructor, Physical Education 1988  
Wellness Director, Assistant Athletic  
Trainer  
Bachelor's (B.S.E.), Missouri Southern  
State College  
Master's (M.A.), University of Tulsa

## William M. Cooke

Assistant Professor, Physical Education  
1988  
Assistant Football Coach  
Bachelor's (B.A.), Fort Lewis College  
Master's (M.A.), Adams State College

## Robert L. Corn

Instructor, Physical Education 1989  
Head Basketball Coach  
Bachelor's (B.S.E.), Missouri Southern  
State College  
Master's (M.A.), University of Alabama  
at Birmingham

## Jimmy C. Couch

Associate Professor, English 1970  
Bachelor's (A.B.), Texas Tech University  
Master's (M.A.), Texas Tech University  
Doctorate (Ph.D.), University of South  
Carolina



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## Faculty

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**Evan Scott Cragin**

Instructor, Business Administration 1989  
Bachelor's (B.S.), Rose-Hullman Institute  
of Technology  
Master's (M.M.), Northwestern University

**Sandra L. Crnic**

Instructor, Dental Hygiene 1989  
Bachelor's (B.S.), University of Missouri-  
Kansas City

**Beverly Culwell**

Associate Professor, Business 1984  
Bachelor's (B.S.), Bethany Nazarene  
College  
Master's (M.S.), University of Arkansas  
Doctorate (Ed.D.), University of  
Arkansas

**Carolyn E. Cunningham**

Assistant Professor, Business 1978  
Bachelor's (B.S.), Missouri Southern  
State College  
Master's (M.S.), Pittsburg State  
University

**Clay Deem**

Instructor, Admissions 1991  
Bachelor's (B.S.E.) Missouri Southern  
State College

**Elliott A. Denniston**

Professor, English 1974  
Bachelor's (B.A.), Princeton University  
Master's (M.A.), University of Michigan  
Doctorate (Ph.D.), University of  
Michigan

**Nancy S. Disharoon**

Instructor, Director of Career Planning  
& Placement 1988  
Bachelor's (B.S.B.A.), Delta State  
University  
Master's (M.Ed.), Delta State  
University

**Glenn D. Dolence**

Professor, Vice President for Student  
Services 1969  
Bachelor's (B.S.), Missouri Valley  
College  
Master's (M.S.), Pittsburg State  
University  
Doctorate (Ed.D.), University of  
Arkansas

**Myrna L. Dolence**

Assistant Professor, Coordinator of  
Learning Center 1973  
Bachelor's (B.S.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University

**Earle F. Doman**

Associate Professor, Director of  
Counseling 1987  
Bachelor's (B.S.), Emporia State  
University  
Master's (M.S.), Kansas State University  
Doctorate (Ph.D.), Kansas State  
University

**Mary Lou Dove**

Assistant Professor, Library 1969  
Bachelor's (B.S.), University of Missouri  
Master's (M.A.), University of Missouri  
Master's (M.S.), Pittsburg State  
University

**Jan Dursky**

Associate Professor, Learning Center  
1984  
Bachelor's (B.A.), University of Iowa  
Master's (M.A.), University of Iowa  
Doctorate (Ed.D.), Drake University

**J. Steve Earney**

Assistant Professor, Director of  
Computer Center 1981  
Computer Science Department Head  
Bachelor's (B.B.A.), University of  
Arkansas  
Master's (M.B.A.), University of  
Central Arkansas  
Certified Data Processor (CDP)

**Duane Eberhardt**

Professor, Business 1986  
Bachelor's (B.S.), San Diego State  
University  
Master's (M.A.), University of  
Southern California  
Doctorate (Ph.D.), University of  
Southern California

**Doris T. Elgin**

Associate Professor, Nursing 1971  
Bachelor's (B.S.N.), University of  
Tennessee  
Master's (M.A.), Memphis State  
University  
Master's (M.S.N.), Texas Woman's  
University

**Mary A. Elick**

Assistant Professor, Mathematics 1974  
Bachelor's (B.S.E.), Southwest Missouri  
State University  
Master's (M.S.), University of Arkansas  
Graduate Study, University of Arkansas

**William C. Elliott**

Associate Professor, Music 1968  
Bachelor's (B.M.E.), Pittsburg State  
University  
Master's (M.M.), Pittsburg State  
University  
Doctoral Studies, University of Northern  
Colorado

**Kenneth G. Evans**

Instructor, Physical Education 1989  
Assistant Football Coach  
Bachelor's (B.S.), Northeastern Oklahoma  
State University  
Master's (M.S.), University of Oklahoma

**Jay E. Fields**

Professor, Theatre 1987  
Theatre Department Head  
Bachelor's (B.A.), West Liberty State  
College  
Master's (M.A.), West Virginia University  
Master's (M.A.), Central Michigan  
University  
Doctorate (Ph.D.), Kent State University  
Post Doctoral Studies, Oxford  
University, England

**Carl A. Finke**

Professor, Business 1970  
Bachelor's (B.S.B.A.), University of  
Arkansas  
Law Degree (Juris Doctorate), University  
of Oklahoma  
Certified Public Accountant (CPA)

**Jon H. Fowler**

Associate Professor, Art 1968  
Bachelor's (B.A.), Southwest Missouri  
State University  
Master's (M.F.A.), University of  
Arkansas

**James L. Frazier**

Assistant Professor, Physical Education  
1971  
Men's Athletic Director  
Bachelor's (A.B.), University of Wichita  
Master's (M.A.), Wichita State University



# Faculty

**C. Elaine Freeman**  
Assistant Professor, Director of Retention 1980  
Bachelor's (A.B.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Specialist (Ed.S.), Pittsburg State University  
Doctorate (Ph.D.), University of Tulsa

**E. Sam Gibson**  
Associate Professor, Biology 1967  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ph.D.), Kansas State University

**James E. Gilbert**  
Associate Professor, Director of Student Financial Aid 1974  
Bachelor's (A.B.), University of Missouri  
Master's (M.A.), Southwest Missouri State University  
Specialist (Ed.S.), Pittsburg State University

**Kreta C. Gladden**  
Assistant Professor, Alumni Director 1974  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.B.A.), Pittsburg State University  
Doctorate (Ed.D.), University of Arkansas

**Ellen Godsey**  
Assistant Professor, Counselor, Learning Center 1984  
Bachelor's (B.A.), East Texas State University  
Master's (M.S.), East Texas State University  
Specialist (Ed.S.), Pittsburg State University

**Larry W. Goode**  
Associate Professor, Business 1968  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University

**James W. Gray**  
Associate Professor, Dean, School of Business Administration, 1969  
Bachelor's (B.S.B.A.), Dana College  
Master's (M.B.A.), University of Arkansas  
Certified Systems Professional (CSP)

**George C. Greenlee**  
Assistant Professor, English 1970  
Bachelor's (B.A.), Northeast Louisiana State College  
Master's (M.A.), Northeast Louisiana State College  
Doctoral Studies, North Texas State University

**Betsy Q. Griffin**  
Professor, Psychology 1978  
Bachelor's (B.A.), East Carolina University  
Master's (M.A.), University of South Carolina  
Doctorate (Ph.D.), University of South Carolina

**Kathleen G. Grim**  
Assistant Professor, Business 1975  
Bachelor's (B.S.E.), Northeast Missouri State University  
Master's (M.A.), Northeast Missouri State University

**Conrad E. Gubera**  
Professor, Sociology 1967  
Bachelor's (B.S.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Doctorate (Ph.D.), Oklahoma State University  
Post Doctoral Studies, Columbia University, Oxford University, England

**Linda Hand**  
Assistant Professor, Mathematics 1988  
Bachelor's (B.S.), University of Missouri  
Master's (M.S.), Central Missouri State University  
Doctoral Studies, Oklahoma State University

**Henry L. Harder**  
Professor, English 1970  
Bachelor's (A.B.), Subiaco College  
Master's (M.A.), University of Arkansas  
Doctorate (Ph.D.), University of Maryland

**Dennis Harmon**  
Assistant Professor, Mathematics 1989  
Bachelor's (B.S.), University of Oklahoma  
Master's (M.A.), University of Oklahoma  
Doctorate (Ph.D.), University of Oklahoma

**Wayne A. Harrell**  
Professor, Music 1971  
Bachelor's (B.M.E.), Wichita State University  
Master's (M.M.E.), Wichita State University  
Doctorate (Ed.D.), University of Northern Colorado

**Robert A. Harris**  
Assistant Professor, Music 1971  
Bachelor's (B.M.), Pittsburg State University  
Master's (M.S.), Pittsburg State University  
Pupil of Rosina Lhevinne

**Peter Havelly**  
Associate Professor, Music 1979  
Fine Arts Department Head, Director of Band  
Bachelor's (B.M.E.), Central Oklahoma State University  
Master's (M.M.E.), Central Oklahoma State University  
Doctoral Studies, Michigan State University

**Barbara M. Hernandez**  
Instructor, Physical Education 1990  
Bachelor's (B.A.Ed.), Northwestern State University  
Master's (M.Ed.), Northwestern State University

**Dennis Herr**  
Assistant Professor, Computer Science 1985  
Bachelor's (B.S.), Missouri Southern State College  
Master's (M.B.A.), Pittsburg State University  
Certified Data Processor (CDP)

**Garry J. Hess**  
Assistant Professor, Art 1971  
Bachelor's (B.S.), Fort Hays State College  
Master's (M.A.), Pittsburgh State University  
Graduate Study, Pittsburg State University, East Texas State University



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## Faculty

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**Thomas L. Holman**

Associate Professor, History 1962  
Bachelor's (A.B.), Southwestern College  
Master's (M.A.), Pittsburg State  
University  
Doctorate (Ed.D.), Oklahoma State  
University

**Delores A. Honey**

Assistant Professor, Assistant to Vice  
President for Academic Affairs 1980  
Bachelor's (B.S.), Southwest Missouri  
State University  
Master's (M.Ed.), University of Missouri  
Specialist (Ed.S.), Pittsburg State  
University  
Doctorate (Ph.D.), University of Missouri  
Post Doctoral Studies, Oxford University,  
England

**Richard D. Humphrey**

Associate Professor, Director of  
Admissions 1968  
Bachelor's (B.S.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University

**Duane L. Hunt**

Associate Professor, Theatre 1963  
Bachelor's (B.S.), Southwest Missouri  
State University  
Master's (M.A.), University of Arkansas  
Graduate Study, University of Arkansas

**Gwen E. Hunt**

Instructor, Director of Public  
Information 1976  
Bachelor's (B.S.), Southwest Missouri  
State University  
Master's (M.A.), University of Arkansas  
Graduate Study, University of Colorado

**Betty Israel**

Assistant Professor, Director of  
Assessment Center 1987  
Bachelor's (B.S.), Southwest Missouri  
State University  
Master's (M.A.), California State  
University-Northridge  
Doctorate (Ed.D.), University of Missouri

**James R. Jackson**

Professor, Biology 1976  
Bachelor's (B.S.), Colorado State  
University  
Master's (M.A.), University of Northern  
Colorado  
Doctorate (Ph.D.), Rutgers State  
University

**Marilyn J. Jacobs**

Assistant Professor, Nursing 1974  
Bachelor's (B.S.N.), University of  
Nebraska  
Master's (M.S.N.), University of  
Oklahoma

**Anne M. Jaros**

Assistant Professor, Theatre 1989  
Bachelor's (B.A.), University of Illinois  
Master's (M.A.), Northwestern University

**Jasbir S. Jaswal**

Professor, Business 1977  
Bachelor's (B.A.), University of  
Raiputana, India  
Master's (M.A.), University of  
Raiputana, India  
Master's (M.A.), University of  
Texas, El Paso  
Doctorate (Ph.D.), University of  
Missouri

**Bernard A. Johnson**

Associate Professor, Business 1974  
Bachelor's (B.S.B.A.), Missouri Southern  
State College  
Master's (M.B.A.), Central Missouri  
State University

**Jack D. Jolly**

Assistant Professor, Mathematics 1968  
Bachelor's (B.S.E.), University of  
Oklahoma  
Master's (M.A.), University of Oklahoma  
Graduate Study, University of Texas,  
University of Wisconsin, University of  
Minnesota

**Rosanne Joyner**

Associate Professor, Education 1985  
Director of Clinical Experiences  
Bachelor's (B.S.), East Tennessee State  
University  
Master's (M.Ed.), Mississippi State  
University  
Doctorate (Ph.D.), University of  
Southern Mississippi  
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APT Programming, Tulsa Junior College  
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Lester E. Cox Medical Center

### **Paul S. Quinn**

Medical Director  
School of Medical Technology  
Lester E. Cox Medical Center

### **Jeffrey F. Schaffer, M.D.**

Medical Director/Advisor  
School of Radiologic Technology



## Faculty

### Emeritus Faculty

**Enid Blevins**

Assistant Professor, English 1966  
Bachelor's (B.S.), Southwest Missouri  
State University  
Master's (M.A.), Pittsburg State  
University

**Fred Cinotto**

Professor, Administrative Assistant  
1965  
Bachelor's (B.S.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University

**Cleetis Headlee**

Professor, English 1946  
Bachelor's (B.S.), University of Missouri  
Master's (M.A.), University of Missouri

**Julie S. Hughes**

Assistant Professor, History 1963  
Bachelor's (B.S.), Pittsburg State  
University  
Master's (M.S.), Pittsburg State  
University

**Grace C. Mitchell**

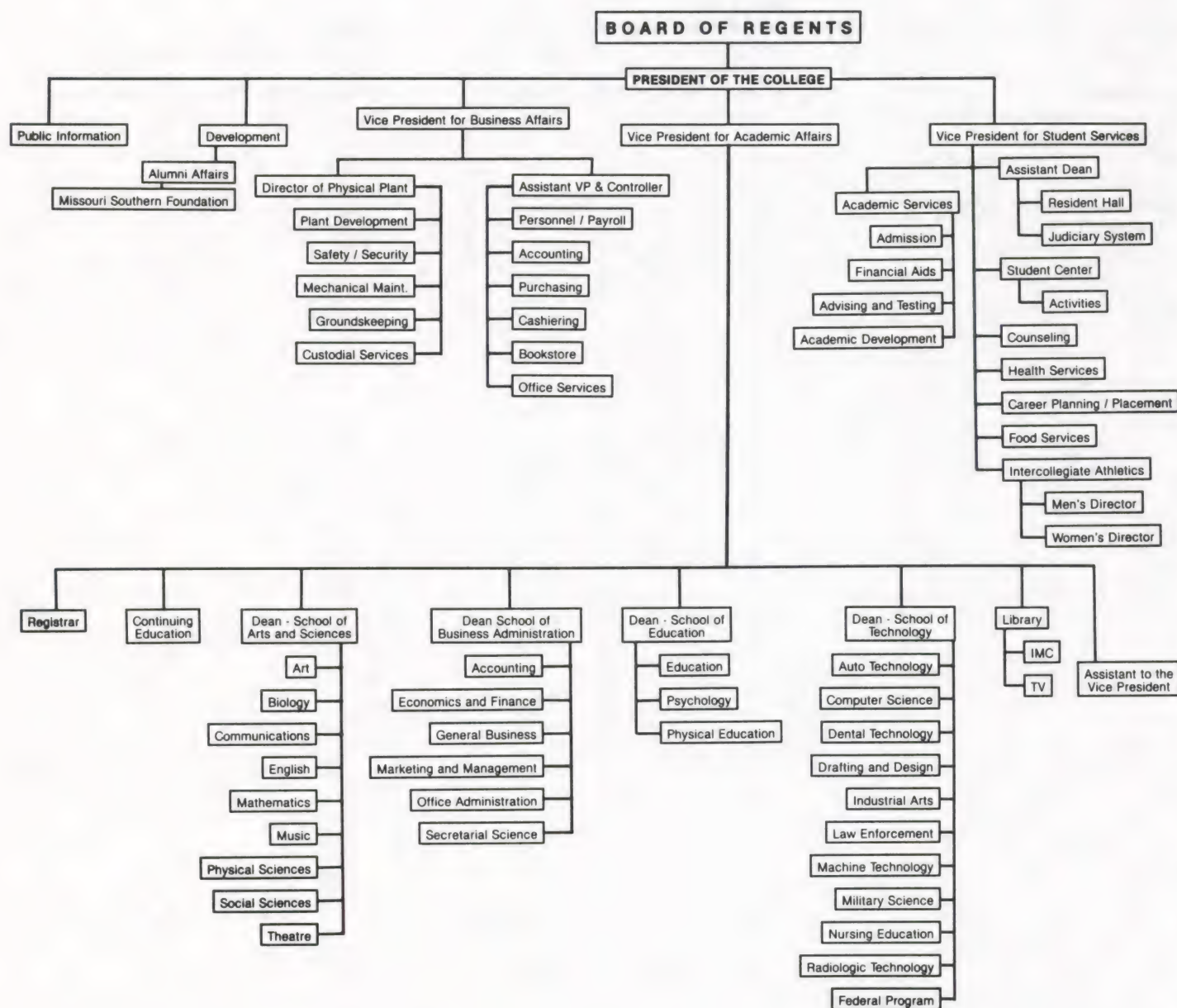
Assistant Professor, English 1958  
Bachelor's (A.B.), Greensboro College  
Master's (M.A.), Pennsylvania State  
University

**Dorothy A. Stone**

Professor, Business Administration  
1939  
Bachelor's (B.S.), University of Missouri  
Master's (M.A.), University of Missouri



# College Organization





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## Equal Opportunity

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex or age in the recruitment and admission of student, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

## Handicap Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Director of Counseling who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

## Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

1. The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.
2. The disclosure is to school officials, including teachers, who have a legitimate education interest.
3. The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
4. The disclosure is in connection with a health or safety emergency.
5. Other situations listed in 34CFR 99.31.

## Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.



# Honors Program Application

Name Miss  
Ms.  
Mrs.  
Mr. \_\_\_\_\_  
Last First Initial

Social Security No: \_\_\_\_\_ Telephone No: (\_\_\_\_) \_\_\_\_\_  
(Area Code)

Address: \_\_\_\_\_  
Street Town State Zip

ACT Composite Score: \_\_\_\_\_

Have you been admitted to MSSC? Yes ☐ No ☐  
If not, please apply at once.

Have you applied for financial aid? Yes ☐ No ☐  
If not, please consider doing so.

High School: \_\_\_\_\_ GPA: \_\_\_\_\_

Year of Graduation: \_\_\_\_\_ Class Standing: \_\_\_\_\_/\_\_\_\_\_

Intended Major: \_\_\_\_\_

For already enrolled or transfer student

College or University Attended: \_\_\_\_\_

Hours Completed: \_\_\_\_\_ GPA: \_\_\_\_\_

Quarter System \_\_\_\_\_

Semester System \_\_\_\_\_

Check below if one applies.

- ☐ National Merit Finalist  
☐ National Merit Semi-Finalist  
☐ National Merit Letter of Commendation

Please list extracurricular activities and interests below.  
Attach a separate sheet if necessary.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

For office use only:

Incoming Freshman ☐

Already Enrolled ☐

Transfer Student ☐

Transcript \_\_\_\_\_

ACT Scores \_\_\_\_\_

Letters of recommendation:

High school principal \_\_\_\_\_ 1

High school teacher \_\_\_\_\_ 2

Essay \_\_\_\_\_

Interview \_\_\_\_\_

Action taken:

Signature \_\_\_\_\_ Date \_\_\_\_\_



## INSTRUCTIONS

### REQUIREMENTS

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

### APPLICATIONS PROCEDURES

#### Incoming Freshman

- \*A completed APPLICATION FORM must be filed.
- \*Please request that an official high school TRANSCRIPT be sent directly to the Honors Program.
- \*Your ACT RESULTS must be on record, either separately, or on your transcript.
- \*Arrange to have two LETTERS OF RECOMMENDATION sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- \*You will need to arrange for an INTERVIEW.
- \*You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

#### Already Enrolled or Transfer Student

- \*A completed APPLICATION FORM must be filed.
- \*Please request that an official college TRANSCRIPT be sent directly to the Honors Program.
- \*Your ACT RESULTS must be on record, either separately or on your transcript.
- \*Arrange to have two LETTERS OF RECOMMENDATION from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- \*You will need to arrange for an INTERVIEW.
- \*You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 1; for the spring semester all materials should be received by November 15.

Send all application materials to:

Honors Program Director  
Missouri Southern State College  
Joplin, MO 64801-1595  
Telephone: Toll free in Missouri 1-800-492-4811  
Telephone: In Joplin 1-417-625-9300, 625-9686 or 625-9748

Missouri Southern State College is an equal opportunity and affirmative action institution.

The college reserves the right to amend regulations when necessary



GPA \_\_\_\_\_ Need \_\_\_\_\_ Other Scholarship \_\_\_\_\_ Code \_\_\_\_\_ Activities \_\_\_\_\_

Office Use Only

# Missouri Southern State College

Please complete application on **both** sides

3950 Newman Road  
Joplin, Missouri 64801-1595  
417-625-9300

## Scholarship Application

**Note:** By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

- How to apply:**
1. Must apply or have applied for admission.
  2. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Junior College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.).
  3. **Type** or **Print** application.

Name \_\_\_\_\_  
First Middle or Initial Last Maiden

Social Security Number \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_  
Number of Street City State Zip County

Male \_\_\_\_\_ Female \_\_\_\_\_ Married \_\_\_\_\_ Single \_\_\_\_\_

Date of High School Graduation \_\_\_\_\_

High School Attended \_\_\_\_\_ City/State \_\_\_\_\_

Entering Freshman \_\_\_\_\_ Freshman \_\_\_\_\_ Sophomore \_\_\_\_\_ Junior \_\_\_\_\_  
(0 hrs) (1-29 hrs) (30-59 hrs) (60-89 hrs)

Senior \_\_\_\_\_ \*Transfer \_\_\_\_\_ \*College last attended \_\_\_\_\_  
(90 plus hrs) (new transfers only)

Educational Major \_\_\_\_\_ Minor \_\_\_\_\_

**Check** criteria which apply to you.

- \_\_\_\_\_ 1. Career choice is mental health.
- \_\_\_\_\_ 2. Student Nurses' Association (SNA)
- \_\_\_\_\_ 3. Interested in medical profession
- \_\_\_\_\_ 4. Speech and debate
- \_\_\_\_\_ 5. Work with handicapped children
- \_\_\_\_\_ 6. Freeman Hospital employee
- \_\_\_\_\_ 7. Piano major
- \_\_\_\_\_ 8. Rainbow member
- \_\_\_\_\_ 9. Father or Grandfather Lions Club Member
- \_\_\_\_\_ 10. Interested in technology major
- \_\_\_\_\_ 11. Minority (optional):\*
  - \_\_\_\_\_ Black (non-hispanic);
  - \_\_\_\_\_ White (non-hispanic);
  - \_\_\_\_\_ American Indian;
  - \_\_\_\_\_ Hispanic;
  - \_\_\_\_\_ Asian;
  - \_\_\_\_\_ other

### Entering Freshmen or New College Transfer Students only—

Application will not be processed unless this section is completed and signed by your HS counselor/principal or College Registrar.

High School GPA on a 4.00 grade point system

(HS) 7th semester GPA: \_\_\_\_\_

(College) Last Semester completed GPA: \_\_\_\_\_

Signature \_\_\_\_\_ Title \_\_\_\_\_

Date \_\_\_\_\_

Please do not send transcript to Financial Aid Office

\*Some scholarships may have criteria based on minority.



Are you receiving any of the following scholarships?

President's \_\_\_\_\_ Regents' \_\_\_\_\_ Performing Aids \_\_\_\_\_ Athletic \_\_\_\_\_ Honors \_\_\_\_\_

Deans' \_\_\_\_\_ Other (List) \_\_\_\_\_

Are you currently employed? \_\_\_\_\_ If yes, list place of employment. \_\_\_\_\_

(If dependent) Father's employer \_\_\_\_\_

(If dependent) Mother's employer \_\_\_\_\_

(If married) Spouse's employer \_\_\_\_\_

**Note:** Please complete the following:

Scholastic honors: \_\_\_\_\_

Activities: \_\_\_\_\_

Organizations: \_\_\_\_\_

Volunteer Work: \_\_\_\_\_

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed or handicap.

Statement of Certification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State College to permit the donor of the scholarship to review my scholarship record files.

I understand that in order to receive assistance from the scholarship program administered by Missouri Southern State College I must maintain satisfactory academic progress.

I further understand that application to the scholarship program **must** be turned in prior to **April 1**.

- Note:**
1. Students may not receive more than one scholarship issued by the College. This includes the Honors, President's, Regents', Jr. College, Deans', and Patrons Scholarship Program. Outstanding students who receive more than one scholarship must choose which award they will accept unless special approval is made by the Director of Student Financial Aid.
  2. Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.
  3. All scholarships are issued for one year only.
  4. All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.

Date Signed \_\_\_\_\_ Signature \_\_\_\_\_



